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Technical Specification

Universal Mobile Telecommunications System (UMTS);
LTE;
Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification
(3GPP TS 31.124 version 8.2.0 Release 8)

Reference

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Foreword

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Contents

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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1 Scope

The present document describes the technical characteristics and methods of test for testing the USIM Application Toolkit implemented in 3rd Generation Mobile Equipments (ME) or Mobile Station (MS) for the 3G and 2G digital cellular communications systems within the 3GPP digital cellular telecommunications system, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [19] and ETSI ETS 300 406 [20].

The present document is valid for ME implemented according to 3GPP Release 99, or Release 4, or Release 5, or Release 6, or Release 7 or Release 8.

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

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 3GPP-series of technical specifications. The present document neither replaces any of the other 3GPP technical specifications or 3GPP related ETSs or ENs, nor is it created to provide full understanding of (or parts of) the UMTS. The present document lists the requirements, and provides the methods of test for testing the USIM Application Toolkit implemented in a ME for conformance to the 3GPP standard.

For a full description of the system, reference should be made to all the 3GPP technical specifications or 3GPP related ETSIs, ETSs or ENs. Clause 2 provides a complete list of the 3GPP technical specifications, 3GPP related ETSI's 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 3GPP technical specification or 3GPP related ETSI, ETS, EN, or 3GPP TS, then the other 3GPP technical specification or 3GPP related ETSI ETS, EN or 3GPP TS shall prevail.

Within the context of this document, the term "terminal" used in ETSI TS 102 223 [16] refers to the Mobile Equipment (ME).

Within the context of this document, the term "UICC" used in ETSI TS 102 223 [16] refers to the USIM card.

Within the context of this document, the term "NAA" used in ETSI TS 102 223 [16] refers to the USIM application.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the relevant Release*.
- References to 3GPP Technical Specifications and Technical Reports throughout the present document shall be interpreted according to the Release shown in the formal reference in this clause, based upon the Release of the implementation under test.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 22.001: "Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".

[3] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".

[4] 3GPP TS 22.004: "General on supplementary services".

[5] ETSI TS 101 220: "ETSI numbering system for telecommunication application providers"

[6] 3GPP TS 21.904: "UE capability requirements"

[7] 3GPP TS 23.038: "Alphabets and language-specific information".

[8] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".

[9] 3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".

[10] 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core network protocols; Stage 3".

[11] 3GPP TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) Support on mobile radio interface".

[12] 3GPP TS 34.108: "Common test environments for User Equipment (UE) conformance testing".

[13] ETSI TS 102 221: "UICC-Terminal interface; Physical and logical characteristics".

[14] 3GPP TS 31.102: "Characteristics of the USIM application".

[15] 3GPP TS 31.111: "USIM Application Toolkit (USAT)"

[16] ETSI TS 102 223: "Smart cards; Card Application Toolkit (CAT)"

[17a] ISO/IEC 10646-1: "Information technology - Universal Multiple Octet Coded Character Set (UCS) - Part 1: Architecture and Basic Multilingual Plane".

[17b] ISO/IEC 10646-2: "Information technology - Universal Multiple Octet Coded Character Set (UCS) - Part 2: Supplementary Planes".

[18] 3GPP TS 27.007: "AT command set for 3G User Equipment (UE)".

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

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

[21] 3GPP TS 31.121: "UICC-terminal interface; USIM application test specification"

[22] 3GPP TS 22.101: "Service Aspects; Service principles"

[23] 3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance specification"

[24] Void.

[25] TIA/IS-820-A: "Removable User Identity Module (R-UIM) for TIA/EIA Spread Spectrum System".

[26] ETSI TS 102 384: "Smart cards; UICC-Terminal interface; Card Application Toolkit (CAT) conformance specification".

[27] 3GPP TS 34.123-3: "User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSs)".

[28] 3GPP TS 31.115: "Secured packet structure for (U)SIM Toolkit applications".

[29] 3GPP TS 23.122: "Non-Access Stratum functions related to Mobile Station (MS) in idle mode".

3 Definitions and abbreviations

3.1 Mobile station definition and configurations

The mobile station definition and configurations specified in TS 34.108 [12] shall apply, unless otherwise specified in the present clause.

3.2 Applicability

3.2.1 Applicability of the present document

The present specification applies to a terminal equipment that supports the USIM Application Toolkit optional feature.

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 TS 34.108 [12] shall apply, unless otherwise specified in the present clause.

Within the context of this document, the term "USS" refers to the 'UMTS System Simulator' when accessing a UTRAN and to the 'System Simulator' when accessing a GERAN.

See table B.1.

3.2.4 Definitions

For the purposes of the present document, the terms and definitions given in TS 34.108 [12], , apply.

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 [19], 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 ME" column lists the tests required for a Mobile Station 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 "Network Dependency" column indicates if a test depends on specific network access technology or requires network connection, but the status may not have an impact on references to ETSI TS 102 384 [26].
- The "Terminal Profile" column gives a reference to the corresponding bit that needs to be present in the Terminal Profile.
- The "Additional test case execution parameter" column shall be used in conjunction with the entry in the "Rel-xx ME" column. The column indicates if the test is affected by additional test case execution parameters.

3.2.4.3 Status and notations

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

The following notations, defined in ISO/IEC 9646-7 [19], 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.

The "Additional test case execution parameter" column shows the status of the entries as follows:

TCEPi	Test Case Execution Parameter –defines additional parameters which have to be taken into account when executing affected test case(s). "i" is an integer identifying an unique parameter which is defined immediately following the table.

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 USIM Application Toolkit is optional for Mobile Equipment. However, if an ME states conformance with a specific 3GPP release, it is mandatory for the ME to support all functions of that release, as stated in table B.1.

The support of letter classes, which specify mainly ME hardware dependent features, is optional for the ME and may supplement the USIM Application Toolkit functionality described in the present document. If an ME 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	Mobile supporting GPRS	O		O_GPRS
17	Mobile supporting UDP	O		O_UDP
18	Mobile supporting TCP	O		O_TCP
19	Redial in Set Up Call	O		O_Redial
20	Mobile 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	Mobile 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 Messaging Support	O		O_MMS
39	ME requesting for user confirmation before sending the Envelope Call Control command	O		O_UC_Before_EnvCC
40	ME requesting for user confirmation after sending the Envelope Call Control command	O		O_UC_After_EnvCC
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	Mobile supporting **B**arred **D**ialling Numbers	O		O_BDN
45	Mobile supporting Fixed dialling numbers	O		O_FDN
46	Mobile supporting "+CIMI" in combination with Run AT Command	O		O_+CIMI
47	Mobile supporting "+CGMI" in combination with Run AT Command	O		O_+CGMI
48	Mobile supporting Open Channel (GPRS) not containing a Network Access Name TLV when no default Access Point Name is set in the terminal configuration	O		O_Open_Channel_GPRS_without_DefaultAPN
49	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
50	Text attributes – Alignment left	O		O_TAT_AL
51	Text attributes – Alignment center	O		O_TAT_AC
52	Text attributes – Alignment right	O		O_TAT_AR
53	Text attributes – Font size normal	O		O_TAT_FSN
54	Text attributes – Font size large	O		O_TAT_FSL
55	Text attributes – Font size small	O		O_TAT_FSS

56	Text attributes – Style normal	O		O_TAT_SN
57	Text attributes – Style bold	O		O_TAT_SB
58	Text attributes – Style italic	O		O_TAT_SI
59	Text attributes – Style underlined	O		O_TAT_SU
60	Text attributes – Style strikethrough	O		O_TAT_SS
61	Text attributes – Style text foreground colour	O		O_TAT_STFC
62	Text attributes – Style text background colour	O		O_TAT_STFB
63	Terminal supports Long ForwardToNumber	O		O_longFTN
64	Mobile supporting GERAN	O		O_GERAN
65	Support of global phonebook	C001		O_Global_PB
66	HSDPA Support	O		O_HSDPA
67	UTRAN PS with extended parameters Support	O		O_UTRAN_PS_Ext_Param
68	Terminal executes User confirmation phase before sending PDP context activation request	O		O_User_Confirm_Before_PDP_Context_Request
69	ME supports Call Hold Supplementary Service	O		O_Serv_SS_HOLD
70	Class E: B.I.P. related to I-WLAN	O		O_I-WLAN
71	Class K: Terminal Applications support	O		O_Terminal_Applications
72	Class E: Terminal supports TCP, UICC in Server Mode	O		O_TCP_UICC_ServerMode
73	Class E: Terminal supports TCP, Terminal in Server Mode	O		O_TCP_Terminal_ServerMode
74	Class E: Terminal supports UDP, UICC in Server Mode	O		O_UDP_Terminal_ServerMode
75	ME supports icons as defined in record 1 of EF(IMG)	O		O_Icons_Rec1
76	ME supports icons as defined in record 2 of EF(IMG)	O		O_Icons_Rec2
77	ME supports icons as defined in record 5 of EF(IMG)	O		O_Icons_Rec5
78	Terminal supports at least one supplementary service.	O		O_AddInfo_SS
79	Terminal supports "Call Forwarding Unconditional"	O		O_ Serv_SS_CFU
80	Terminal supports "Calling Line Identification Restriction"	O		O_Serv_SS_CLIR
81	Class N:Terminal supports "Geographical location discovery"	O		O_Geo_Location_Discovery
82	Terminal supports melody and theme tones	O		O_M_T_Tones
83	Terminal supports Toolkit-initiated GBA	O		O_Toolkit_GBA
84	Terminal supports display capability	C002		O_ No_Type_ND
85	Terminal supports keypad	C002		O_No_Type_NK
86	Terminal supports audio altering	C002		O_No_Type_NA
87	Terminal supports speech call	C002		O_No_Type_NS
88	Terminal supports multiple languages	C002		O_No_Type_NL
89	Class P:USSD Data Download and application mode	O		O_USSD_Data_DL
C001 If terminal is implemented according to Rel-6 or later then M, else O				
C002 If feature is implemented according to Rel-8 or later then O, else M				

3.4 Applicability table

Table B.1: Applicability of tests

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
1	**PROFILE DOWNLOAD27.22.1**	R99	1	M	M	M	M	M	M	E.1/1	No		
2	**Contents of the TERMINAL PROFILE command 27.22.2**	R99		M	M	M	M	M	M	E.1/1	No		
3	**Servicing of Proactive UICC Commands 27.22.3**	R99		M	M	M	M	M	M		No		
4	**DISPLAY TEXT 27.22.4.1**												
	Unpacked	R99	1.1	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/110	No		
	Screen busy	R99	1.2	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/110	No		
	high priority	R99	1.3	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/110	No		
	Packed	R99	1.4	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/110	No		
	clear after delay	R99	1.5	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/110	No		
	long text up to 160 bytes	R99	1.6	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/110	No		
	Backwards move in USIM session	R99	1.7	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/17 AND E.1/110 AND E.1/111	No		
	Session terminated by user	R99	1.8	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/17 AND E.1/110 AND E.1/111	No		
	Command not understood by ME	R99	1.9	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/110	No		
	no response from user	R99	2.1	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	E.1/17 AND E.1/110 AND E.1/111	No		
	Extension Text	R99	3.1	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/16 AND E.1/110	No		
	sustained text	R99	4.1, 4.2, 4.3, 4.4	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/65 AND E.1/110	No		
	sustained text	R99	4.3	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/17 AND E.1/65 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	sustained text	R99	4.4	C177 AND C180	C177 AND C180	C177 AND C180	C177 AND C180	C177 AND C180	C177 AND C180	E.1/17 AND E.1/65 AND E.1/110	Yes		
	Icons – basic icon	R99	5.1, 5.3	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	E.1/17 AND E.1/110	No		
	Icons – colour icon	R99	5.2	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	E.1/17 AND E.1/110	No		
	UCS2 display in Cyrillic	R99	6.1	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	E.1/17 AND E.1/15 AND E.1/110	No		
	Variable Timeout	Rel-4	7.1		C126 AND C177 AND C178	C126 AND C177 AND C178	C126 AND C177 AND C178	C126 AND C177 AND C178	C126 AND C177 AND C178	E.1/17 AND E.1/137 AND E.1/110 AND E.1/111	No		
	Text attribute – left alignment	Rel-5	8.1			C153 AND C177	C153 AND C177	C153 AND C177	C153 AND C177	E.1/17 AND E.1/124 AND E.1/217 AND E.1/110	No		
	Text attribute – center alignment	Rel-5	8.2			C154 AND C177	C154 AND C177	C154 AND C177	C154 AND C177	E.1/17 AND E.1/124 AND E.1/218 AND E.1/110	No		
	Text attribute – right alignment	Rel-5	8.3			C155 AND C177	C155 AND C177	C155 AND C177	C155 AND C177	E.1/17 AND E.1/124 AND E.1/219 AND E.1/110	No		
	Text attribute – large font size	Rel-5	8.4			C157 AND C156 AND C177	C157 AND C156 AND C177	C157 AND C156 AND C177	C157 AND C156 AND C177	E.1/17 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	No		
	Text attribute – small font size	Rel-5	8.5			C158 AND C156 AND C177	C158 AND C156 AND C177	C158 AND C156 AND C177	C158 AND C156 AND C177	E.1/17 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	No		
	Text attribute – bold on	Rel-5	8.6			C160 AND C159 AND C177	C160 AND C159 AND C177	C160 AND C159 AND C177	C160 AND C159 AND C177	E.1/17 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – italic on	Rel-5	8.7			C161 AND C159 AND C177	C161 AND C159 AND C177	C161 AND C159 AND C177	C161 AND C159 AND C177	E.1/17 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	No		
	Text attribute – underlined on	Rel-5	8.8			C162 AND C159 AND C177	C162 AND C159 AND C177	C162 AND C159 AND C177	C162 AND C159 AND C177	E.1/17 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	No		
	Text attribute – strikethrough on	Rel-5	8.9			C163 AND C159 AND C177	C163 AND C159 AND C177	C163 AND C159 AND C177	C163 AND C159 AND C177	E.1/17 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	No		
	Text attribute – foreground and background colours	Rel-5	8.10			C164 AND C165 AND C177	C164 AND C165 AND C177	C164 AND C165 AND C177	C164 AND C165 AND C177	E.1/17 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	No		
	UCS2 display in Chinese	R99	9.1			C143 AND C177	C143 AND C177	C143 AND C177	C143 AND C177	E.1/17 AND E.1/15 AND E.1/110	No		
	UCS2 display in Katakana	R99	10.1			C145 AND C177	C145 AND C177	C145 AND C177	C145 AND C177	E.1/17 AND E.1/15 AND E.1/110	No		
	Frames	Rel-6	TBD							E.1/17 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
5	**GET INKEY 27.22.4.2**												
	prompt unpacked	R99	1.1	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No		
	prompt packed	R99	1.2	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No		
	Backwards move in UICC session	R99	1.3	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No		
	Session terminated by user	R99	1.4	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No		
	SMS alphabet	R99	1.5	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Long text up to 160 bytes	R99	1.6	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No		
	no response from user	R99	2.1	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No		
	UCS2 display in Cyrillic	R99	3.1	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 display, Long text up to 70 chars in Cyrillic	R99	3.2	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 entry in Cyrillic	R99	4.1	C105 AND C177 AND C178	C105 AND C177 AND C178	C105 AND C177 AND C178	C105 AND C177 AND C178	C105 AND C177 AND C178	C105 AND C177 AND C178	E.1/18 AND E.1/14 AND E.1/110 AND E.1/111	No		
	"Yes/No" response	R99	5.1	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/18 AND E.1/60 AND E.1/110 AND E.1/111	No		
	Icons – basic icon	R99	6.1, 6.2	C108 AND C177 AND C178	C108 AND C177 AND C178	C108 AND C177 AND C178	C108 AND C177 AND C178	C108 AND C177 AND C178	C108 AND C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No		
	Icons – colour icon	R99	6.3, 6.4	C171 AND C177 AND C178	C171 AND C177 AND C178	C171 AND C177 AND C178	C171 AND C177 AND C178	C171 AND C177 AND C178	C171 AND C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No		
	Help information	R99	7.1	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No		
	Variable Timeout	Rel-4	8.1		C126 AND C177 AND C178	C126 AND C177 AND C178	C126 AND C177 AND C178	C126 AND C177 AND C178	C126 AND C177 AND C178	E.1/18 AND E.1/140 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – left alignment	Rel-5	9.1			C153 AND C177 AND C178	C153 AND C177 AND C178	C153 AND C177 AND C178	C153 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	No		
	Text attribute – center alignment	Rel-5	9.2			C154 AND C177 AND C178	C154 AND C177 AND C178	C154 AND C177 AND C178	C154 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	No		
	Text attribute – right alignment	Rel-5	9.3			C155 AND C177 AND C178	C155 AND C177 AND C178	C155 AND C177 AND C178	C155 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	No		
	Text attribute – large font size	Rel-5	9.4			C157 AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	No		
	Text attribute – small font size	Rel-5	9.5			C158 AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	No		
	Text attribute – bold on	Rel-5	9.6			C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	E.1/18 AND E.1/124 E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	No		
	Text attribute – italic on	Rel-5	9.7			C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	E.1/18 AND E.1/124 E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – underlined on	Rel-5	9.8			C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	E.1/18 AND E.1/124 E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	No		
	Text attribute – strikethough on	Rel-5	9.9			C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	E.1/18 AND E.1/124 E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	No		
	Text attribute – foreground and background colours	Rel-5	9.10			C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	No		
	UCS2 display in Chinese	R99	10.1			C143 AND C177 AND C178	C143 AND C177 AND C178	C143 AND C177 AND C178	C143 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 display in Chinese, Long text up to 70 chars	R99	10.2			C143 AND C177 AND C178	C143 AND C177 AND C178	C143 AND C177 AND C178	C143 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 entry in Chinese	R99	11.1			C142 AND C177 AND C178	C142 AND C177 AND C178	C142 AND C177 AND C178	C142 AND C177 AND C178	E.1/18 AND E.1/14 AND E.1/110 AND E.1/111	No		
	UCS2 display in Katakana	R99	12.1			C145 AND C177 AND C178	C145 AND C177 AND C178	C145 AND C177 AND C178	C145 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 display in Katakana, Long text up to 70 chars	R99	12.2			C145 AND C177 AND C178	C145 AND C177 AND C178	C145 AND C177 AND C178	C145 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	UCS2 entry in Katakana	R99	13.1			C144 AND C177 AND C178	C144 AND C177 AND C178	C144 AND C177 AND C178	C144 AND C177 AND C178	E.1/18 AND E.1/14 AND E.1/110 AND E.1/111	No		
	Frames	Rel-6	TBD							E.1/18 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
6	**GET INPUT 27.22.4.3**												
	input unpacked	R99	1.1	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No	C177 AND C178	
	input packed	R99	1.2	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	digits only	R99	1.1	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	SMS alphabet	R99	1.3	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	hidden input	R99	1.4	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	min / max acceptable length	R99	1.5, 1.9	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	Backwards move in UICC session	R99	1.6	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	Session terminated by user	R99	1.7	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	Prompt text up to 160 bytes	R99	1.8	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	SMS default alphabet, ME to echo text, packing not required	R99	1.9	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	Null length for the text string	R99	1.10	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	no response from user	R99	2.1	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	UCS2 display in Cyrillic	R99	3.1, 3.2	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	E.1/19 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 entry in Cyrillic	R99	4.1, 4.2	C105 AND C177 AND C178	C105 AND C177 AND C178	C105 AND C177 AND C178	C105 AND C177 AND C178	C105 AND C177 AND C178	C105 AND C177 AND C178	E.1/19 AND E.1/14 AND E.1/110 AND E.1/111	No		
	default text for the input	R99	5.1, 5.2	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	Icons – basic icon	R99	6.1, 6.2	C108 AND C177 AND C178	C108 AND C177 AND C178	C108 AND C177 AND C178	C108 AND C177 AND C178	C108 AND C177 AND C178	C108 AND C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	Icons – colour icon	R99	6.3, 6.4	C171 AND C177 AND C178	C171 AND C177 AND C178	C171 AND C177 AND C178	C171 AND C177 AND C178	C171 AND C177 AND C178	C171 AND C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	help information	R99	7.1	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		
	Text attribute– left alignment	Rel-5	8.1			C153 AND C177 AND C178	C153 AND C177 AND C178	C153 AND C177 AND C178	C153 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	No		
	Text attribute – center alignment	Rel-5	8.2			C154 AND C177 AND C178	C154 AND C177 AND C178	C154 AND C177 AND C178	C154 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	No		
	Text attribute – right alignment	Rel-5	8.3			C155 AND C177 AND C178	C155 AND C177 AND C178	C155 AND C177 AND C178	C155 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	No		

Item	Description	Release	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
	Text attribute – large font size	Rel-5	8.4			C157 AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	No		
	Text attribute – small font size	Rel-5	8.5			C158 AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	No		
	Text attribute – bold on	Rel-5	8.6			C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	No		
	Text attribute – italic on	Rel-5	8.7			C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	No		
	Text attribute – underlined on	Rel-5	8.8			C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	No		
	Text attribute – strikethrough on	Rel-5	8.9			C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – foreground and background colours	Rel-5	8.10			C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	N o		
	UCS2 display in Chinese	R99	9.1, 9.2			C143 AND C177 AND C178	C143 AND C177 AND C178	C143 AND C177 AND C178	C143 AND C177 AND C178	E.1/19 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 entry in Chinese	R99	10.1, 10.2			C142 AND C177 AND C178	C142 AND C177 AND C178	C142 AND C177 AND C178	C142 AND C177 AND C178	E.1/19 AND E.1/14 AND E.1/110 AND E.1/111	No		
	UCS2 display in Katakana	R99	11.1, 11.2			C145 AND C177 AND C178	C145 AND C177 AND C178	C145 AND C177 AND C178	C145 AND C177 AND C178	E.1/19 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 entry in Katakana	R99	12.1, 12.2			C144 AND C177 AND C178	C144 AND C177 AND C178	C144 AND C177 AND C178	C144 AND C177 AND C178	E.1/19 AND E.1/14 AND E.1/110 AND E.1/111	No		
	Frames	Rel-6	TBD							E.1/19 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
7	**MORE TIME 27.22.4.4**	R99	1.1	M	M	M	M	M	M	E.1/20	No		
8	**PLAY TONE 27.22.4.5**												
	play all tones, display alpha, user termination, superimpose	R99	1.1	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	E.1/21 AND E.1/110 AND E.1/111	Yes		TCEP001
	UCS2 display in Cyrillic	R99	2.1	C118 AND C180	C118 AND C180	C118 AND C180	C118 AND C180	C118 AND C180	C118 AND C180	E.1/21 AND E.1/15 AND E.1/110	No		TCEP001

Item	Description	Release	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
	Icons – basic icon	R99	3.1, 3.2	C108 AND C180	C108 AND C180	C108 AND C180	C108 AND C180	C108 AND C180	C108 AND C180	E.1/21 AND E.1/110	No		TCEP001
	Icons – colour icon	R99	3.3, 3.4	C171 AND C180	C171 AND C180	C171 AND C180	C171 AND C180	C171 AND C180	C171 AND C180	E.1/21 AND E.1/110	No		TCEP001
	Text attribute – left alignment	Rel-5	4.1			C153 AND C180	C153 AND C180	C153 AND C180	C153 AND C180	E.1/21 AND E.1/124 AND E.1/217 AND E.1/110	No		TCEP001
	Text attribute – center alignment	Rel-5	4.2			C154 AND C180	C154 AND C180	C154 AND C180	C154 AND C180	E.1/21 AND E.1/124 AND E.1/218 AND E.1/110	No		TCEP001
	Text attribute – right alignment	Rel-5	4.3			C155 AND C180	C155 AND C180	C155 AND C180	C155 AND C180	E.1/21 AND E.1/124 AND E.1/219 AND E.1/110	No		TCEP001
	Text attribute – large font size	Rel-5	4.4			C157 AND C156 AND C180	C157 AND C156 AND C180	C157 AND C156 AND C180	C157 AND C156 AND C180	E.1/21 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	No		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – small font size	Rel-5	4.5			C158 AND C156 AND C180	C158 AND C156 AND C180	C158 AND C156 AND C180	C158 AND C156 AND C180	E.1/21 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	No		TCEP001
	Text attribute – bold on	Rel-5	4.6			C160 AND C159 AND C180	C160 AND C159 AND C180	C160 AND C159 AND C180	C160 AND C159 AND C180	E.1/21 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	No		TCEP001
	Text attribute – italic on	Rel-5	4.7			C161 AND C159 AND C180	C161 AND C159 AND C180	C161 AND C159 AND C180	C161 AND C159 AND C180	E.1/21 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	No		TCEP001
	Text attribute – underlined on	Rel-5	4.8			C162 AND C159 AND C180	C162 AND C159 AND C180	C162 AND C159 AND C180	C162 AND C159 AND C180	E.1/21 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	No		TCEP001
	Text attribute – strikethrough on	Rel-5	4.9			C163 AND C159 AND C180	C163 AND C159 AND C180	C163 AND C159 AND C180	C163 AND C159 AND C180	E.1/21 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	No		TCEP001
	Text attribute– foreground and background colours	Rel-5	4.10			C164 AND C165 AND C180	C164 AND C165 AND C180	C164 AND C165 AND C180	C164 AND C165 AND C180	E.1/21 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	No		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	UCS2 display in Chinese	R99	5.1			C143 AND C180	C143 AND C180	C143 AND C180	C143 AND C180	E.1/21 AND E.1/15 AND E.1/110	No		TCEP001
	UCS2 display in Katakana	R99	6.1			C145 AND C180	C145 AND C180	C145 AND C180	C145 AND C180	E.1/21 AND E.1/15 AND E.1/110	No		TCEP001
	Frames	Rel-6	TBD							E.1/21 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
	Themed and Melody tones	Rel-6	TBD							E.1/21 AND E.1/171 AND E.1/110	C138		
9	**POLL INTERVAL 27.22.4.6**												
	duration	R99	1.1	M	M	M	M	M	M	E.1/22	No		
10	**REFRESH 27.22.4.7**												
	USIM initialization, enabling FDN mode	R99	1.1	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	E.1/24 AND E.1/110 AND E.1/111	Yes		
	file change notification of FDN file	R99	1.2	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	E.1/24 AND E.1/110 AND E.1/111	Yes		
	USIM initialization and file change notification of ADN	R99	1.3	C168 AND C177 AND C178	C168 AND C177 AND C178	C168 AND C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/24 AND E.1/110 AND E.1/111	No		

Item	**Description**	**Re-lease**	**Test sequence (s)**	**Rel 99 ME**	**Rel-4 ME**	**Rel-5 ME**	**Rel-6 ME**	**Rel-7 ME**	**Rel-8 ME**	**Terminal Profile**	**Network Dependency**	**Sup-port**	
	USIM initialization and full file change notification, enabling FDN mode	R99	1.4	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	E.1/24 AND E.1/110 AND E.1/111	Yes		
	UICC reset	R99	1.5				M	M	M	E.1/24	No		
	USIM Initialization after SMS-PP data download	R99	1.6	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	E.1/24 AND E.1/110 AND E.1/111	Yes		
	USIM Application Reset	R99	1.7				C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	E1/24 AND E.1/110 AND E.1/111	Yes		
	UICC Reset for IMSI Changing procedure	R99	2.1								TBD		
	USIM Application Reset for IMSI Changing procedure	R99	2.2				M	M	M	E.1/24	Yes		
	3G Session Reset for IMSI Changing procedure	R99	2.3								TBD		
	reject 3G Session Reset for IMSI Changing procedure during call	R99	2.4				C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	E 1/24 AND E.1/110 AND E.1/111	Yes		
	Steering of roaming, UTRAN	Rel-7	3.1					M	M	E.1/24 AND E.1/236	UMTS System Simulator only		
	Steering of roaming, InterRAT	Rel-7	3.2					C167	C167	E.1/24 AND E.1/236	UMTS System Simulator and System Simulator		
11	**SET UP MENU 27.22.4.8**												
	Set up, menu selection, replace and remove menu	R99	1.1	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/30 AND E.1/4 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Large menu	R99	1.2	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/30 AND E.1/4 AND E.1/110 AND E.1/111	No		
	help information	R99	2.1	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	E.1/30 AND E.1/4 AND E.1/110 AND E.1/111	No		
	next action indicator	R99	3.1	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/30 AND E.1/110 AND E.1/111	No		
	Icons	R99	4.1, 4.2	C172 AND C177 AND C178	C172 AND C177 AND C178	C172 AND C177 AND C178	C172 AND C177 AND C178	C172 AND C177 AND C178	C172 AND C177 AND C178	E.1/30 AND E.1/110 AND E.1/111	No		
	soft key access	R99	5.1	C112 AND C177 AND C178	C112 AND C177 AND C178	C112 AND C177 AND C178	C112 AND C177 AND C178	C112 AND C177 AND C178	C112 AND C177 AND C178	E.1/30 AND E.1/74 AND E.1/110 AND E.1/111	No		
	Text attribute – left alignment	Rel-5	6.1			C153 AND C177 AND C178	C153 AND C177 AND C178	C153 AND C177 AND C178	C153 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	No		
	Text attribute – center alignment	Rel-5	6.2			C154 AND C177 AND C178	C154 AND C177 AND C178	C154 AND C177 AND C178	C154 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	No		
	Text attribute – right alignment	Rel-5	6.3			C155 AND C177 AND C178	C155 AND C177 AND C178	C155 AND C177 AND C178	C155 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	No		
	Text attribute – large font size	Rel-5	6.4			C157 AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – small font size	Rel-5	6.5			C158 AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	No		
	Text attribute – bold on	Rel-5	6.6			C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	No		
	Text attribute – italic on	Rel-5	6.7			C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	No		
	Text attribute – underlined on	Rel-5	6.8			C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	No		
	Text attribute – strikethrough on	Rel-5	6.9			C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	No		
	Text attribute – foreground and background colours	Rel-5	6.10			C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	No		
	UCS2 display in Cyrillic	R99	7.1			C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	E.1/39 AND E.1/15 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	UCS2 display in Chinese	R99	8.1			C143 AND C177 AND C178	C143 AND C177 AND C178	C143 AND C177 AND C178	C143 AND C177 AND C178	E.1/39 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 display in Katakana	R99	9.1			C145 AND C177 AND C178	C145 AND C177 AND C178	C145 AND C177 AND C178	C145 AND C177 AND C178	E.1/39 AND E.1/15 AND E.1/110 AND E.1/111	No		
12	**SELECT ITEM 27.22.4.9**												
	Mandatory features	R99	1.1	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No		
	Large menu	R99	1.2, 1.3, 1.5,1.6	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No		
	Backwards move	R99	1.4	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No		
	user termination	R99	1.5	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No		
	next action indicator	R99	2.1	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No		
	default selected item	R99	3.1	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No		
	help information	R99	4.1	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	C107 AND C177 AND C178	E 1/25 AND E.1/110 AND E.1/111	No		
	Icons	R99	5.1, 5.2	C172 AND C177 AND C178	C172 AND C177 AND C178	C172 AND C177 AND C178	C172 AND C177 AND C178	C172 AND C177 AND C178	C172 AND C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No		
	Presentation style	R99	6.1, 6.2	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No		
	Soft keys	R99	7.1	C112 AND C177 AND C178	C112 AND C177 AND C178	C112 AND C177 AND C178	C112 AND C177 AND C178	C112 AND C177 AND C178	C112 AND C177 AND C178	E.1/25 AND E.1/73 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	No Response from user	R99	8.1	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	C120 AND C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No		
	Text attribute – left alignment	Rel-5	9.1			C153 AND C177 AND C178	C153 AND C177 AND C178	C153 AND C177 AND C178	C153 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	No		
	Text attribute – center alignment	Rel-5	9.2			C154 AND C177 AND C178	C154 AND C177 AND C178	C154 AND C177 AND C178	C154 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	No		
	Text attribute – right alignment	Rel-5	9.3			C155 AND C177 AND C178	C155 AND C177 AND C178	C155 AND C177 AND C178	C155 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	No		
	Text attribute – large font size	Rel-5	9.4			C157 AND C156 AND C177 AND C178	C157AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	No		
	Text attribute – small font size	Rel-5	9.5			C158 AND C156 AND C177 AND C178	C158AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	No		
	Text attribute – bold on	Rel-5	9.6			C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	C160 AND C159 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	No		
	Text attribute – italic on	Rel-5	9.7			C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	C161 AND C159 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – underline on	Rel-5	9.8			C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	C162 AND C159 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	No		
	Text attribute – strikethrough on	Rel-5	9.9			C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	C163 AND C159 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	No		
	Text attribute – foreground and background colours	Rel-5	9.10			C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	C164 AND C165 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	No		
	UCS2 display in Cyrillic	R99	10.1, 10.2, 10.3			C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	C118 AND C177 AND C178	E.1/39 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 display in Chinese	R99	11.1			C143 AND C177 AND C178	C143 AND C177 AND C178	C143 AND C177 AND C178	C143 AND C177 AND C178	E.1/25 AND E.1/15 AND E.1/110 AND E.1/111	No		
	UCS2 display in Katakana	R99	12.1, 12.2, 12.3			C145 AND C177 AND C178	C145 AND C177 AND C178	C145 AND C177 AND C178	C145 AND C177 AND C178	E.1/25 AND E.1/15 AND E.1/110 AND E.1/111	No		
	Frames	Rel-6	TBD							E.1/25 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
13	**SEND SMS 27.22.4.10**												

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Packing not required, 8 bit data	R99	1.1	M	M	M	M	M	M	E.1/26 AND E.1/110	Yes		TCEP001
	Packing required, 8 bit data	R99	1.2	M	M	M	M	M	M	E.1/26 AND E.1/110	Yes		TCEP001
	Packing not required, SMS default alphabet	R99	1.3	M	M	M	M	M	M	E.1/26 AND E.1/110	Yes		TCEP001
	Packing required, 8 bit data, 160 bytes length	R99	1.4	M	M	M	M	M	M	E.1/26 AND E.1/110	Yes		TCEP001
	Packing not required, SMS default alphabet, 160 bytes length	R99	1.5	M	M	M	M	M	M	E.1/26 AND E.1/110	Yes		TCEP001
	Alpha identifier	R99	1.6, 1.8	M	M	M	M	M	M	E.1/26 AND E.1/110	Yes		TCEP001
	Alpha identifier length '00'	R99	1.7	M	M	M	M	M	M	E.1/26	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	UCS2 SMS in Cyrillic	R99	2.1	C118	C118	C118	C118	C118	C118	E.1/26 AND E.1/15 AND E.1/110	Yes		TCEP001
	Icons – basic icon	R99	3.1, 3.2	C108	C108	C108	C108	C108	C108	E.1/26 AND E.1/110	Yes		TCEP001
	Text attribute– left alignment	Rel-5	4.1			C153	C153	C153	C153	E.1/26 AND E.1/124 AND E.1/217 AND E.1/110	Yes		TCEP001
	Text attribute – center alignment	Rel-5	4.2			C154	C154	C154	C154	E.1/26 AND E.1/124 AND E.1/218 AND E.1/110	Yes		TCEP001
	Text attribute – right alignment	Rel-5	4.3			C155	C155	C155	C155	E.1/26 AND E.1/124 AND E.1/219 AND E.1/110	Yes		TCEP001
	Text attribute – large font size	Rel-5	4.4			C157 AND C156	C157AND C156	C157 AND C156	C157AND C156	E.1/26 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – small font size	Rel-5	4.5			C158 AND C156	C158AND C156	C158 AND C156	C158AND C156	E.1/26 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	Yes		TCEP001
	Text attribute – bold on	Rel-5	4.6			C160 AND C159	C160 AND C159	C160 AND C159	C160 AND C159	E.1/26 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	Yes		TCEP001
	Text attribute – italic on	Rel-5	4.7			C161 AND C159	C161 AND C159	C161 AND C159	C161 AND C159	E.1/26 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	Yes		TCEP001
	Text attribute – underline on	Rel-5	4.8			C162 AND C159	C162 AND C159	C162 AND C159	C162 AND C159	E.1/26 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	Yes		TCEP001
	Text attribute– strikethrough on	Rel-5	4.9			C163 AND C159	C163 AND C159	C163 AND C159	C163 AND C159	E.1/26 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	Yes		TCEP001
	Text attribute – foreground and background colours	Rel-5	4.10			C164 AND C165	C164 AND C165	C164 AND C165	C164 AND C165	E.1/26 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	UCS2 display in Chinese	R99	5.1			C143	C143	C143	C143	E.1/26 AND E.1/15 AND E.1/110	Yes		TCEP001
	UCS2 display in Katakana	R99	6.1			C145	C145	C145	C145	E.1/26 AND E.1/15 AND E.1/110	Yes		TCEP001
	Frames	Rel-6	TBD							E.1/26 AND E.1/177 AND E.1/178 AND E.1/110	TBD		TCEP001
14	**SEND SS 27.22.4.11**												
	call forward unconditional, all bearers, successful	R99	1.1	C166 AND C174	C166 AND C174	C166 AND C174	C166 AND C174	C166 AND C174	C166 AND C174	E.1/27 AND E.1/110	Yes		TCEP001
	call forward unconditional, all bearers, Return Error	R99	1.2	C174	C174	C174	C174	C174	C174	E.1/27 AND E.1/110	Yes		TCEP001
	call forward unconditional, all bearers, Reject	R99	1.3	C174	C174	C174	C174	C174	C174	E.1/27 AND E.1/110	Yes		TCEP001

Item	Description	Release	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
	call forward unconditional, all bearers, successful, SS request size limit	R99	1.4	C166 AND C174	C166 AND C174	C166 AND C174	C166 AND C174	C166 AND C174	C166 AND C174	E.1/27 AND E.1/110	Yes		TCEP001
	interrogate CLIR status, successful, alpha identifier limits	R99	1.5	C175	C175	C175	C175	C175	C175	E.1/27 AND E.1/110	Yes		TCEP001
	call forward unconditional, all bearers, successful, null data alpha identifier	R99	1.6	C166 AND C174	C166 AND C174	C166 AND C174	C166 AND C174	C166 AND C174	C166 AND C174	E.1/27 AND E.1/110	Yes		TCEP001
	call forward unconditional, all bearers, successful, basic icon support	R99	2.1, 2.3, 2.4	C108 AND C174	C108 AND C174	C108 AND C174	C108 AND C174	C108 AND C174	C108 AND C174	E.1/27 AND E.1/110	Yes		TCEP001
	call forward unconditional, all bearers, successful, colour icon support	R99	2.2	C171 AND C174	C171 AND C174	C171 AND C174	C171 AND C174	C171 AND C174	C171 AND C174	E.1/27 AND E.1/110	Yes		TCEP001
	UCS2 display in Cyrillic	R99	3.1	C118 AND C174	C118 AND C174	C118 AND C174	C118 AND C174	C118 AND C174	C118 AND C174	E.1/27 AND E.1/15 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – left alignment	Rel-5	4.1			C153 AND C166 AND C174	C153 AND C166 AND C174	C153 AND C166 AND C174	C153 AND C166 AND C174	E.1/27 AND E.1/124 AND E.1/217 AND E.1/110	Yes		TCEP001
	Text attribute – center alignment	Rel-5	4.2			C154 AND C166 AND C174	C154 AND C166 AND C174	C154 AND C166 AND C174	C154 AND C166 AND C174	E.1/27 AND E.1/124 AND E.1/218 AND E.1/110	Yes		TCEP001
	Text attribute – right alignment	Rel-5	4.3			C155 AND C166 AND C174	C155 AND C166 AND C174	C155 AND C166 AND C174	C155 AND C166 AND C174	E.1/27 AND E.1/124 AND E.1/219 AND E.1/110	Yes		TCEP001
	Text attribute – large font size	Rel-5	4.4			C157 AND C156 AND C166 AND C174	C157AND C156ANDC166 AND C174	C157 AND C156 ANDC166 AND C174	C157AND C156ANDC166 AND C174	E.1/27 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	Yes		TCEP001
	Text attribute – small font size	Rel-5	4.5			C158 AND C156 AND C166 AND C174	C158AND C156 AND C166 AND C174	C158 AND C156 AND C166 AND C174	C158AND C156 AND C166 AND C174	E.1/27 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	Yes		TCEP001
	Text attribute – bold on	Rel-5	4.6			C160 AND C159 AND C166 AND C174	C160 AND C159 AND C166 AND C174	C160 AND C159 AND C166 AND C174	C160 AND C159 AND C166 AND C174	E.1/27 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	Yes		TCEP001

Item	Description	Release	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
	Text attribute – italic on	Rel-5	4.7			C161 AND C159 AND C166 AND C174	C161 AND C159 AND C166 AND C174	C161 AND C159 AND C166 AND C174	C161 AND C159 AND C166 AND C174	E.1/27 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	Yes		TCEP001
	Text attribute – underline on	Rel-5	4.8			C162 AND C159 AND C166 AND C174	C162 AND C159 AND C166 AND C174	C162 AND C159 AND C166 AND C174	C162 AND C159 AND C166 AND C174	E.1/27 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	Yes		TCEP001
	Text attribute – strikethrough on	Rel-5	4.9			C163 AND C159 AND C166 AND C174	C163 AND C159 AND C166 AND C174	C163 AND C159 AND C166 AND C174	C163 AND C159 AND C166 AND C174	E.1/27 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	Yes		TCEP001
	Text attribute – foreground and background colours	Rel-5	4.10			C164 AND C165 AND C166 AND C174	C164 AND C165 AND C166 AND C174	C164 AND C165 AND C166 AND C174	C164 AND C165 AND C166 AND C174	E.1/27 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	Yes		TCEP001
	UCS2 display in Chinese	R99	5.1			C143 AND C166 AND C174	C143 AND C166 AND C174	C143 AND C166 AND C174	C143 AND C166 AND C174	E.1/27 AND E.1/15 AND E.1/110	Yes		TCEP001
	UCS2 display in Katakana	R99	6.1			C145 AND C166 AND C174	C145 AND C166 AND C174	C145 AND C166 AND C174	C145 AND C166 AND C174	E.1/27 AND E.1/15 AND E.1/110	Yes		TCEP001
15	**SEND USSD 27.22.4.12**												

Item	Description	Release	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
	7-bit data, successful	R99	1.1	M	M	M	M	M	M	E.1/28 AND E.1/110	Yes		TCEP001
	8-bit data, successful	R99	1.2	M	M	M	M	M	M	E.1/28 AND E.1/110	Yes		TCEP001
	UCS2 data, successful	R99	1.3	M	M	M	M	M	M	E.1/28 AND E.1/110	Yes		TCEP001
	7-bit data, unsuccessful	R99	1.4	M	M	M	M	M	M	E.1/28 AND E.1/110	Yes		TCEP001
	7-bit data, unsuccessful	R99	1.5	M	M	M	M	M	M	E.1/28 AND E.1/110	Yes		TCEP001
	256 octets, 7-bit data, successful, long alpha identifier	R99	1.6	M	M	M	M	M	M	E.1/28 AND E.1/110	Yes		TCEP001
	7-bit data, successful, no alpha identifier	R99	1.7	M	M	M	M	M	M	E.1/28 AND E.1/110	Yes		
	7-bit data, successful, null length alpha identifier	R99	1.8	M	M	M	M	M	M	E.1/28 AND E.1/110	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Icons – basic icon	R99	2.1, 2.3, 2.4	C108	C108	C108	C108	C108	C108	E.1/28 AND E.1/110	Yes		TCEP001
	Icons – colour icon	R99	2.2	C171	C171	C171	C171	C171	C171	E.1/28 AND E.1/110	Yes		TCEP001
	UCS2 in Cyrillic	R99	3.1	C118	C118	C118	C118	C118	C118	E.1/28 AND E.1/15 AND E.1/110	Yes		TCEP001
	Text attribute – left alignment	Rel-5	4.1			C153	C153	C153	C153	E.1/28 AND E.1/124 AND E.1/217 AND E.1/110	Yes		TCEP001
	Text attribute – center alignment	Rel-5	4.2			C154	C154	C154	C154	E.1/28 AND E.1/124 AND E.1/218 AND E.1/110	Yes		TCEP001
	Text attribute – right alignment	Rel-5	4.3			C155	C155	C155	C155	E.1/28 AND E.1/124 AND E.1/219 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – large font size	Rel-5	4.4			C157 AND C156	C157AND C156	C157 AND C156	C157 AND C156	E.1/28 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	Yes		TCEP001
	Text attribute – small font size	Rel-5	4.5			C158 AND C156	C158AND C156	C158 AND C156	C158 AND C156	E.1/28 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	Yes		TCEP001
	Text attribute – bold on	Rel-5	4.6			C160 AND C159	C160 AND C159	C160 AND C159	C160 AND C159	E.1/28 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	Yes		TCEP001
	Text attribute – italic on	Rel-5	4.7			C161 AND C159	C161 AND C159	C161 AND C159	C161 AND C159	E.1/28 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	Yes		TCEP001
	Text attribute – underline on	Rel-5	4.8			C162 AND C159	C162 AND C159	C162 AND C159	C162 AND C159	E.1/28 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	Yes		TCEP001
	Text attribute – strikethrough on	Rel-5	4.9			C163 AND C159	C163 AND C159	C163 AND C159	C163 AND C159	E.1/28 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – foreground and background colours	Rel-5	4.10			C164 AND C165	C164 AND C165	C164 AND C165	C164 AND C165	E.1/28 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	Yes		TCEP001
	UCS2 in Chinese	R99	5.1			C143	C143	C143	C143	E.1/28 AND E.1/15 AND E.1/110	Yes		TCEP001
	UCS2 in Katakana	R99	6.1			C145	C145	C145	C145	E.1/28 AND E.1/15 AND E.1/110	Yes		TCEP001
16	**SET UP CALL 27.22.4.13**												
	Call confirmed by the user and connected	R99	1.1	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	call rejected by the user	R99	1.2	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	void									E.1/29			
	putting all other calls on hold, ME busy	R99	1.4	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	disconnecting all other calls, ME busy	R99	1.5	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	only if not currently busy on another call, ME busy	R99	1.6	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	putting all other calls on hold, call hold is not allowed	R99	1.7	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	Capability configuration	R99	1.8	C101 AND C177 AND C178 AND C180	C101 AND C177 AND C178 AND C180	C101 AND C177 AND C178 AND C180	C101 AND C177 AND C178 AND C180	C101 AND C177 AND C178 AND C180	C101 AND C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	long dialling number string	R99	1.9	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	long first alpha identifier	R99	1.10	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	Called party subaddress	R99	1.11	C124 AND C177 AND C178 AND C180	C124 AND C177 AND C178 AND C180	C124 AND C177 AND C178 AND C180	C124 AND C177 AND C178 AND C180	C124 AND C177 AND C178 AND C180	C124 AND C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	maximum duration for the redial mechanism	R99	1.12	C119 AND C177 AND C178 AND C180	C119 AND C177 AND C178 AND C180	C119 AND C177 AND C178 AND C180	C119 AND C177 AND C178 AND C180	C119 AND C177 AND C178 AND C180	C119 AND C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	second alpha identifier	R99	2.1	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	E.1/29 AND E.1/63 AND E.1/110 AND E.1/111	Yes		

Item	Description	Release	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
	Icons – basic icon	R99	3.1,3.2, 3.4	C108 AND C177 AND C178 AND C180	C108 AND C177 AND C178 AND C180	C108 AND C177 AND C178 AND C180	C108 AND C177 AND C178 AND C180	C108 AND C177 AND C178 AND C180	C108 AND C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	Icons – colour icon	R99	3.3	C171 AND C177 AND C178 AND C180	C171 AND C177 AND C178 AND C180	C171 AND C177 AND C178 AND C180	C171 AND C177 AND C178 AND C180	C171 AND C177 AND C178 AND C180	C171 AND C177 AND C178 AND C180	E.1/29 AND E.1/110 AND E.1/111	Yes		
	Text attribute – left alignment	Rel-5	4.1			C153 AND C177 AND C178 AND C180	C153 AND C177 AND C178 AND C180	C153 AND C177 AND C178 AND C180	C153 AND C177 AND C178 AND C180	E.1/29 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	Yes		
	Text attribute – center alignment	Rel-5	4.2			C154 AND C177 AND C178 AND C180	C154 AND C177 AND C178 AND C180	C154 AND C177 AND C178 AND C180	C154 AND C177 AND C178 AND C180	E.1/29 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	Yes		
	Text attribute – right alignment	Rel-5	4.3			C155 AND C177 AND C178 AND C180	C155 AND C177 AND C178 AND C180	C155 AND C177 AND C178 AND C180	C155 AND C177 AND C178 AND C180	E.1/29 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	Yes		
	Text attribute – large font size	Rel-5	4.4			C157 AND C156 AND C177 AND C178 AND C180	C157AND C156 AND C177 AND C178 AND C180	C157 AND C156 AND C177 AND C178 AND C180	C157AND C156 AND C177 AND C178 AND C180	E.1/29 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – small font size	Rel-5	4.5			C158 AND C156 AND C177 AND C178 AND C180	C158AND C156 AND C177 AND C178 AND C180	C158 AND C156 AND C177 AND C178 AND C180	C158AND C156 AND C177 AND C178 AND C180	E.1/29 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	Yes		
	Text attribute – bold on	Rel-5	4.6			C160 AND C159 AND C177 AND C178 AND C180	C160 AND C159 AND C177 AND C178 AND C180	C160 AND C159 AND C177 AND C178 AND C180	C160 AND C159 AND C177 AND C178 AND C180	E.1/29 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	Yes		
	Text attribute – italic on	Rel-5	4.7			C161 AND C159 AND C177 AND C178 AND C180	C161 AND C159 AND C177 AND C178 AND C180	C161 AND C159 AND C177 AND C178 AND C180	C161 AND C159 AND C177 AND C178 AND C180	E.1/29 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	Yes		
	Text attribute – underline on	Rel-5	4.8			C162 AND C159 AND C177 AND C178 AND C180	C162 AND C159 AND C177 AND C178 AND C180	C162 AND C159 AND C177 AND C178 AND C180	C162 AND C159 AND C177 AND C178 AND C180	E.1/29 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	Yes		
	Text attribute – strikethrough on	Rel-5	4.9			C163 AND C159 AND C177 AND C178 AND C180	C163 AND C159 AND C177 AND C178 AND C180	C163 AND C159 AND C177 AND C178 AND C180	C163 AND C159 AND C177 AND C178 AND C180	E.1/29 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – foreground and background colours	Rel-5	4.10			C164 AND C165 AND C177 AND C178 AND C180	C164 AND C165 AND C177 AND C178 AND C180	C164 AND C165 AND C177 AND C178 AND C180	C164 AND C165 AND C177 AND C178 AND C180	E.1/29 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	Yes		
	UCS2 Display in Cyrillic	R99	5.1, 5.2.			C118 AND C177 AND C178 AND C180	C118 AND C177 AND C178 AND C180	C118 AND C177 AND C178 AND C180	C118 AND C177 AND C178 AND C180	E.1/29 AND E.1/15 AND E.1/110 AND E.1/111	Yes		
	UCS2 display in Chinese	R99	6.1, 6.2			C143 AND C177 AND C178 AND C180	C143 AND C177 AND C178 AND C180	C143 AND C177 AND C178 AND C180	C143 AND C177 AND C178 AND C180	E.1/29 AND E.1/15 AND E.1/110 AND E.1/111	Yes		
	UCS2 display in Katakana	R99	7.1, 7.2			C145 AND C177 AND C178 AND C180	C145 AND C177 AND C178 AND C180	C145 AND C177 AND C178 AND C180	C145 AND C177 AND C178 AND C180	E.1/29 AND E.1/15 AND E.1/110 AND E.1/111	Yes		
	Frames	Rel-6	TBD							E.1/29 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
17	**POLLING OFF 27.22.4.14**	R99	1.1	C180	C180	C180	C180	C180	C180	E.1/23	Yes		
18	**PROVIDE LOCAL INFORMATION27.22.4.15**												
	location information	R99	1.1	M	M	M	M	M	M	E.1/31	Yes		
	IMEI	R99	1.2	M	M	M	M	M	M	E.1/31	Yes		
	network measurement results and BCCH channel list	R99	1.3	C167	C167	C167	C167	C167	C167	E.1/32 AND E.1/67	System Simulator only		
	Date, time and time zone	R99	1.4	M	M	M	M	M	M	E.1/59	No		
	language setting	R99	1.5	M	M	M	M	M	M	E.1/68	No		
	Timing advance	R99	1.6	C167	C167	C167	C167	C167	C167	E.1/69	System Simulator only		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Access Technology	Rel-4	1.7				M	M	M	E.1/72	UMTS System Simulator only		
	Void												
	IMEISV	Rel-6	1.9				M	M	M	E.1/143	Yes		
	Search Mode Change	Rel-6	1.10							E.1/144	TBD		
	Charge State of the Battery	Rel-6	1.11				C139	C139	C139	E.1/170	No		
	Intra-frequency UTRAN measurements	Rel-6	1.12				M	M	M	E.1/183	UMTS System Simulator only		
	Inter-frequency UTRAN measurements	Rel-6	1.13				M	M	M	E.1/183	UMTS System Simulator only		
19	**SET UP EVENT LIST 27.22.4.16**												
	Set up call connected event	R99	1.1	C180	C180	C180	C180	C180	C180	E.1/33 AND E.1/35	Yes		
	Replace by new event list	R99	1.2	C180	C180	C180	C180	C180	C180	E.1/33 AND E.1/35 AND E.1/36	Yes		
	Remove event	R99	1.3	C180	C180	C180	C180	C180	C180	E.1/33 AND E.1/35	Yes		
	Remove Event on ME Power Cycle	R99	1.4	C180	C180	C180	C180	C180	C180	E.1/33 AND E.1/35	Yes		
20	**PERFORM CARD APDU 27.22.4.17**												
	Additional card inserted, Select MF and Get Response	R99	1.1	C109	C109	C109	C109	C109	C109	E.1/51	No		
	Additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN	R99	1.2	C109	C109	C109	C109	C109	C109	E.1/51	No		
	Additional card inserted, card powered off	R99	1.3	C109	C109	C109	C109	C109	C109	E.1/51	No		
	No card inserted, card powered off	R99	1.4	C109	C109	C109	C109	C109	C109	E.1/51	No		
	Invalid card reader identifier	R99	1.5	C109	C109	C109	C109	C109	C109	E.1/51	No		
	Detachable reader	R99	2.1	C116	C116	C116	C116	C116	C116	E.1/51	No		
21	**POWER OFF CARD 27.22.4.18**												
	Additional card inserted	R99	1.1	C109	C109	C109	C109	C109	C109	E.1/50	No		
	No card inserted	R99	1.2	C109	C109	C109	C109	C109	C109	E.1/50	No		
	Detachable reader	R99	2.1	C116	C116	C116	C116	C116	C116	E.1/50	No		
22	**POWER ON CARD 27.22.4.19**												

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Additional card inserted	R99	1.1	C109	C109	C109	C109	C109	C109	E.1/49	No		
	No ATR	R99	1.2	C109	C109	C109	C109	C109	C109	E.1/49	No		
	No card inserted	R99	1.3	C109	C109	C109	C109	C109	C109	E.1/49	No		
	Detachable reader	R99	2.1	C116	C116	C116	C116	C116	C116	E.1/49	No		
23	**GET READER STATUS 27.22.4.20**												
	Additional card inserted, card powered	R99	1.1	C109	C109	C109	C109	C109	C109	E.1/52	No		
	Additional card inserted, card not powered	R99	1.2	C109	C109	C109	C109	C109	C109	E.1/52	No		
	Additional card inserted, card not present	R99	1.3	C109	C109	C109	C109	C109	C109	E.1/52	No		
	Detachable reader	R99	2.1	C116	C116	C116	C116	C116	C116	E.1/52	No		
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	R99	1.1	M	M	M	M	M	M	E.1/57 AND E.1/58	No		
	Start timer 2 several times, get the current value of the timer and deactivate the timer successfully	R99	1.2	M	M	M	M	M	M	E.1/57 AND E.1/58	No		
	Start timer 8 several times, get the current value of the timer and deactivate the timer successfully	R99	1.3	M	M	M	M	M	M	E.1/57 AND E.1/58	No		
	Try to get the current value of a timer which is not started: action in contradiction with the current timer state	R99	1.4	M	M	M	M	M	M	E.1/57 AND E.1/58	No		
	Try to deactivate a timer which is not started: action in contradiction with the current timer state	R99	1.5	M	M	M	M	M	M	E.1/57 AND E.1/58	No		
	Start 8 timers successfully	R99	1.6	M	M	M	M	M	M	E.1/57 AND E.1/58	No		
25	**ENVELOPE TIMER EXPIRATION 27.22.4.21.2**												
	Pending proactive UICC command	R99	2.1	M	M	M	M	M	M	E.1/6 AND E.1/57	No		
	USIM application toolkit busy	R99	2.2	M	M	M	M	M	M	E.1/6 AND E.1/57 AND E.1/20	No		
26	**SET UP IDLE MODE TEXT 27.22.4.22**												
	Display idle mode text	R99	1.1	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		

Item	Description	Release	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
	Replace idle mode text	R99	1.2	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		
	Remove idle mode test	R99	1.3	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		
	Competing information on ME display	R99	1.4	C177 AND C179 AND C180	C177 AND C179 AND C180	C177 AND C179 AND C180	C177 AND C179 AND C180	C177 AND C179 AND C180	C177 AND C179 AND C180	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		
	ME powered cycled	R99	1.5	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		
	Refresh with USIM initialization	R99	1.6	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/24 AND E.1/33 AND E.1/39 AND E.1/110	Yes		
	Large text string	R99	1.7	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		
	Icons – basic icon	R99	2.1, 2.2, 2.4	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	E.1/61 AND E.1/39 AND E.1/110	Yes		
	Icons – colour icon	R99	2.3	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	E.1/61 AND E.1/39 AND E.1/110	Yes		
	UCS2 display in Cyrillic	R99	3.1	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	E.1/61 AND E.1/15 AND E.1/39 AND E.1/110	Yes		
	Text attribute – left alignment	Rel-5	4.1			C153 AND C177	C153 AND C177	C153 AND C177	C153 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/217 AND E.1/110	Yes		
	Text attribute – center alignment	Rel-5	4.2			C154 AND C177	C154 AND C177	C154 AND C177	C154 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/218 AND E.1/110	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – right alignment	Rel-5	4.3			C155 AND C177	C155 AND C177	C155 AND C177	C155 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/219 AND E.1/110	Yes		
	Text attribute – large font size	Rel-5	4.4			C157 AND C156 AND C177	C157AND C156 AND C177	C157 AND C156 AND C177	C157 AND C156 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	Yes		
	Text attribute – small font size	Rel-5	4.5			C158 AND C156 AND C177	C158AND C156 AND C177	C158 AND C156 AND C177	C158 AND C156 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	Yes		
	Text attribute – bold on	Rel-5	4.6			C160 AND C159 AND C177	C160 AND C159 AND C177	C160 AND C159 AND C177	C160 AND C159 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	Yes		
	Text attribute – italic on	Rel-5	4.7			C161 AND C159 AND C177	C161 AND C159 AND C177	C161 AND C159 AND C177	C161 AND C159 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	Yes		
	Text attribute – underline on	Rel-5	4.8			C162 AND C159 AND C177	C162 AND C159 AND C177	C162 AND C159 AND C177	C162 AND C159 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	Yes		
	Text attribute – strikethrough on	Rel-5	4.9			C163 AND C159 AND C177	C163 AND C159 AND C177	C163 AND C159 AND C177	C163 AND C159 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – foreground and background colours	Rel-5	4.10			C164 AND C165 AND C177	C164 AND C165 AND C177	C164 AND C165 AND C177	C164 AND C165 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	Yes		
	UCS2 display in Chinese	R99	5.1			C143 AND C177	C143 AND C177	C143 AND C177	C143 AND C177	E.1/61 AND E.1/15 AND E.1/39 AND E.1/110	Yes		
	UCS2 display in Katakana	R99	6.1			C145 AND C177	C145 AND C177	C145 AND C177	C145 AND C177	E.1/61 AND E.1/15 AND E.1/39 AND E.1/110	Yes		
	Frames	Rel-6	TBD							E.1/61 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
27	**RUN AT COMMAND 27.22.4.23**												
	No alpha Identifier	R99	1.1	C110	C110	C110	C110	C110	C110	E.1/62	No		
	null data alpha identifier presented	R99	1.2	C110	C110	C110	C110	C110	C110	E.1/62	No		
	alpha identifier presented	R99	1.3	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	E.1/62 AND E.1/110	No		
	Icons – basic icon	R99	2.1, 2.3, 2.5	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	E.1/62 AND E.1/110	No		
	Icons – colour icon	R99	2.2, 2.4,	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	E.1/62 AND E.1/110	No		
	Text attribute – left alignment	Rel-5	3.1			C110 AND C153 AND C177	C110 AND C153 AND C177	C110 AND C153 AND C177	C110 AND C153 AND C177	E.1/62 AND E.1/124 AND E.1/217 AND E.1/110	No		
	Text attribute – center alignment	Rel-5	3.2			C110 AND C154 AND C177	C110 ANDC154 AND C177	C110 ANDC154 AND C177	C110 AND C154 AND C177	E.1/62 AND E.1/124 AND E.1/218 AND E.1/110	No		
	Text attribute – right alignment	Rel-5	3.3			C110 AND C155 AND C177	C110 ANDC155 AND C177	C110 ANDC155 AND C177	C110 AND C155 AND C177	E.1/62 AND E.1/124 AND E.1/219 AND E.1/110	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – large font size	Rel-5	3.4			C110 AND C157 AND C156 AND C177	C110 ANDC157AND C156 AND C177	C110 ANDC157AND C156 AND C177	C110 AND C157 AND C156 AND C177	E.1/62 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	No		
	Text attribute – small font size	Rel-5	3.5			C110 AND C158 AND C156 AND C177	C110 ANDC158AND C156 AND C177	C110 ANDC158AND C156 AND C177	C110 AND C158 AND C156 AND C177	E.1/62 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	No		
	Text attribute – bold on	Rel-5	3.6			C110 AND C160 AND C159 AND C177	C110 ANDC160 AND C159 AND C177	C110 ANDC160 AND C159 AND C177	C110 AND C160 AND C159 AND C177	E.1/62 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	No		
	Text attribute – italic on	Rel-5	3.7			C110 AND C161 AND C159 AND C177	C110 ANDC161 AND C159 AND C177	C110 ANDC161 AND C159 AND C177	C110 AND C161 AND C159 AND C177	E.1/62 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	No		
	Text attribute – underline on	Rel-5	3.8			C110 AND C162 AND C159 AND C177	C110 ANDC162 AND C159 AND C177	C110 ANDC162 AND C159 AND C177	C110 AND C162 AND C159 AND C177	E.1/62 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	No		
	Text attribute – strikethrough on	Rel-5	3.9			C110 AND C163 AND C159 AND C177	C110 ANDC163 AND C159 AND C177	C110 ANDC163 AND C159 AND C177	C110 AND C163 AND C159 AND C177	E.1/62 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	No		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – foreground and background colours	Rel-5	3.10			C110 AND C164 AND C165 AND C177	C110 ANDC164 AND C165 AND C177	C110 ANDC164 AND C165 AND C177	C110 AND C164 AND C165 AND C177	E.1/62 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	No		
	UCS2 Display in Cyrillic	R99	4.1			C149 AND C177	C149 AND C177	C149 AND C177	C149 AND C177	E.1/62 AND E.1/15 AND E.1/110	No		
	UCS2 display in Chinese	R99	5.1			C150 AND C177	C150 AND C177	C150 AND C177	C150 AND C177	E.1/62 AND E.1/15 AND E.1/110	No		
	UCS2 display in Katakana	R99	6.1			C151 AND C177	C151 AND C177	C151 AND C177	C151 AND C177	E.1/62 AND E.1/15 AND E.1/110	No		
	Frames	Rel-6	TBD							E.1/62 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
28	**SEND DTMF 27.22.4.24**												
	Normal	R99	1.1	C180	C180	C180	C180	C180	C180	E.1/66	Yes		
	alpha identifier	R99	1.2, 1.3	C180	C180	C180	C180	C180	C180	E.1/66 AND E.1/110	Yes		TCEP001
	Mobile is not in a speech call	R99	1.4	C180	C180	C180	C180	C180	C180	E.1/66	Yes		
	Icons – basic icon	R99	2.1, 2.3	C108 AND C180	C108 AND C180	C108 AND C180	C108 AND C180	C108 AND C180	C108 AND C180	E.1/66 AND E.1/110	Yes		TCEP001
	Icons – colour icon	R99	2.2	C171 AND C180	C171 AND C180	C171 AND C180	C171 AND C180	C171 AND C180	C171 AND C180	E.1/66 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	UCS2 display in Cyrillic	R99	3.1	C118 AND C180	C118 AND C180	C118 AND C180	C118 AND C180	C118 AND C180	C118 AND C180	E.1/66 AND E.1/15 AND E.1/110	Yes		TCEP001
	Text attribute – left alignment	Rel-5	4.1			C153 AND C180	C153 AND C180	C153 AND C180	C153 AND C180	E.1/66 AND E.1/124 AND E.1/217 AND E.1/110	Yes		TCEP001
	Text attribute – center alignment	Rel-5	4.2			C154 AND C180	C154 AND C180	C154 AND C180	C154 AND C180	E.1/66 AND E.1/124 AND E.1/218 AND E.1/110	Yes		TCEP001
	Text attribute – right alignment	Rel-5	4.3			C155 AND C180	C155 AND C180	C155 AND C180	C155 AND C180	E.1/66 AND E.1/124 AND E.1/219 AND E.1/110	Yes		TCEP001
	Text attribute – large font size	Rel-5	4.4			C157 AND C156 AND C180	C157AND C156 AND C180	C157 AND C156 AND C180	C157 AND C156 AND C180	E.1/66 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	Yes		TCEP001
	Text attribute – small font size	Rel-5	4.5			C158 AND C156 AND C180	C158AND C156 AND C180	C158 AND C156 AND C180	C158 AND C156 AND C180	E.1/66 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – bold on	Rel-5	4.6			C160 AND C159 AND C180	C160 AND C159 AND C180	C160 AND C159 AND C180	C160 AND C159 AND C180	E.1/66 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	Yes		TCEP001
	Text attribute – italic on	Rel-5	4.7			C161 AND C159 AND C180	C161 AND C159 AND C180	C161 AND C159 AND C180	C161 AND C159 AND C180	E.1/66 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	Yes		TCEP001
	Text attribute – underline on	Rel-5	4.8			C162 AND C159 AND C180	C162 AND C159 AND C180	C162 AND C159 AND C180	C162 AND C159 AND C180	E.1/66 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	Yes		TCEP001
	Text attribute – strikethrough on	Rel-5	4.9			C163 AND C159 AND C180	C163 AND C159 AND C180	C163 AND C159 AND C180	C163 AND C159 AND C180	E.1/66 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	Yes		TCEP001
	Text attribute – foreground and background colours	Rel-5	4.10			C164 AND C165 AND C180	C164 AND C165 AND C180	C164 AND C165 AND C180	C164 AND C165 AND C180	E.1/66 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	Yes		TCEP001
	UCS2 display in Chinese	R99	5.1			C143 AND C180	C143 AND C180	C143 AND C180	C143 AND C180	E.1/66 AND E.1/15 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	UCS2 display in Katakana	R99	6.1			C145 AND C180	C145 AND C180	C145 AND C180	C145 AND C180	E.1/66 AND E.1/15 AND E.1/110	Yes		TCEP001
	Frames	Rel-6	TBD							E.1/66 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
29	**LANGUAGE NOTIFICATION 27.22.4.25**												
	Specific language notification	R99	1.1	C181	C181	C181	C181	C181	C181	E.1/70	No		
	Non specific language notification	R99	1.2	C181	C181	C181	C181	C181	C181	E.1/70	No		
30	**LAUNCH BROWSER 27.22.4.26**												
	No session already launched: Connect to the default URL	R99	1.1	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	E.1/71 AND E.1/110 AND E.1/111	Yes		
	connect to the specified URL, alpha identifier length=0	R99	1.2	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	E.1/71 AND E.1/110 AND E.1/111	Yes		
	Browser identity, no alpha identifier	R99	1.3	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	E.1/71 AND E.1/110 AND E.1/111	Yes		
	one bearer specified and gateway/proxy identity	R99	1.4	C122 AND C177 AND C178	C122 AND C177 AND C178	C122 AND C177 AND C178	C122 AND C177 AND C178	C122 AND C177 AND C178	C122 AND C177 AND C178	E.1/71 AND E.1/98 AND E.1/110 AND E.1/111	Yes		
	void	R99	1.5	Void	Void	Void	Void	Void	Void	void			
	Interaction with current session	R99	2.1, 2.2, 2.3	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	E.1/71 AND E.1/110 AND E.1/111	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	UCS2 display in Cyrillic	R99	3.1	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	E.1/71 AND E.1/15 AND E.1/110 AND E.1/111	Yes		
	Icons – basic icon	R99	4.1, 4.2	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	E.1/71 AND E.1/110 AND E.1/111	Yes		
	Text attribute – left alignment	Rel-5	5.1			C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	Yes		
	Text attribute – center alignment	Rel-5	5.2			C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	Yes		
	Text attribute – right alignment	Rel-5	5.3			C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	Yes		
	Text attribute – large font size	Rel-5	5.4			C111 AND C157 AND C156 AND C177 AND C178	C111 AND C157AND C156 AND C177 AND C178	C111 AND C157 AND C156 AND C177 AND C178	C111 AND C157 AND C156 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – small font size	Rel-5	5.5			C111 AND C158 AND C156 AND C177 AND C178	C111 AND C158AND C156 AND C177 AND C178	C111 AND C158 AND C156 AND C177 AND C178	C111 AND C158 AND C156 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	Yes		
	Text attribute – bold on	Rel-5	5.6			C111 AND C160 AND C159 AND C177 AND C178	C111 AND C160 AND C159 AND C177 AND C178	C111 AND C160 AND C159 AND C177 AND C178	C111 AND C160 AND C159 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	Yes		
	Text attribute – italic on	Rel-5	5.7			C111 AND C161 AND C159 AND C177 AND C178	C111 AND C161 AND C159 AND C177 AND C178	C111 AND C161 AND C159 AND C177 AND C178	C111 AND C161 AND C159 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	Yes		
	Text attribute – underline on	Rel-5	5.8			C111 AND C162 AND C159 AND C177 AND C178	C111 AND C162 AND C159 AND C177 AND C178	C111 AND C162 AND C159 AND C177 AND C178	C111 AND C162 AND C159 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	Yes		
	Text attribute – strikethrough on	Rel-5	5.9			C111 AND C163 AND C159 AND C177 AND C178	C111 AND C163 AND C159 AND C177 AND C178	C111 AND C163 AND C159 AND C177 AND C178	C111 AND C163 AND C159 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	Yes		

Item	Description	Release	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
	Text attribute – foreground and background colours	Rel-5	5.10			C111 AND C164 AND C165 AND C177 AND C178	C111 AND C164 AND C165 AND C177 AND C178	C111 AND C164 AND C165 AND C177 AND C178	C111 AND C164 AND C165 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	Yes		
	UCS2 display in Chinese	R99	6.1			C111 AND C143 AND C177 AND C178	C111 AND C143 AND C177 AND C178	C111 AND C143 AND C177 AND C178	C111 AND C143 AND C177 AND C178	E.1/71 AND E.1/15 AND E.1/110 AND E.1/111	Yes		
	UCS2 display in Katakana	R99	7.1			C111 AND C145 AND C177 AND C178	C111 AND C145 AND C177 AND C178	C111 AND C145 AND C177 AND C178	C111 AND C145 AND C177 AND C178	E.1/71 AND E.1/15 AND E.1/110 AND E.1/111	Yes		
	Frames	Rel-6	TBD							E.1/71 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
31	**OPEN CHANNEL 27.22.4.27**												
	void	R99	void	Void	void	void	void	void	void	void			
	immediate link establishment, GPRS, no local address, no alpha identifier, no network access name	R99	2.1	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/98	Yes		
	immediate link establishment GPRS, no alpha identifier, with network access name	R99	2.2	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/98	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	immediate link establishment, GPRS, with alpha identifier	R99	2.3	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/98 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002
	immediate link establishment, GPRS, with null alpha identifier	R99	2.4	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/98	Yes		
	immediate link establishment, GPRS, command performed with modifications (buffer size)	R99	2.5	C152	C152	C152	C152	C152	C152	E.1/89 AND E.1/98	Yes		
	void	void	2.6	Void	void	void	void	void	void	void			
	immediate link establishment, GPRS, open command with alpha identifier, User did not accept the proactive command	R99	2.7	C169	C169	C169	C169	C169	C169	E.1/89 AND E.1/98 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002
	void	void	2.8	Void	void	void	void	void	void	void			
	Default bearer	R99	TBD							E.1/89 AND E.1/98 AND C132	TBD		
	Local Bearer	Rel-4	TBD							E.1/89 AND E.1/98 AND C132	TBD		

Item	**Description**	**Re-lease**	**Test sequence (s)**	**Rel 99 ME**	**Rel-4 ME**	**Rel-5 ME**	**Rel-6 ME**	**Rel-7 ME**	**Rel-8 ME**	**Terminal Profile**	**Network Dependency**	**Sup-port**	
	Text attribute – left alignment	Rel-5	5.1			C121 AND C153	C121 AND C153	C121 AND C153	C121 AND C153	E.1/89 AND E.1/98 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002
	Text attribute – center alignment	Rel-5	5.2			C121 AND C154	C121 AND C154	C121 AND C154	C121 AND C154	E.1/89 AND E.1/98 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002
	Text attribute – right alignment	Rel-5	5.3			C121 AND C155	C121 AND C155	C121 AND C155	C121 AND C155	E.1/89 AND E.1/98 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – large font size	Rel-5	5.4			C121 AND C157 AND C156	C121 AND C157AND C156	C121 AND C157 AND C156	C121 AND C157 AND C156	E.1/89 AND E.1/98 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002
	Text attribute – small font size	Rel-5	5.5			C121 AND C158 AND C156	C121 AND C158AND C156	C121 AND C158 AND C156	C121 AND C158 AND C156	E.1/89 AND E.1/98 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002
	Text attribute – bold on	Rel-5	5.6			C121 AND C160 AND C159	C121 AND C160 AND C159	C121 AND C160 AND C159	C121 AND C160 AND C159	E.1/89 AND E.1/98 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – italic on	Rel-5	5.7			C121 AND C161 AND C159	C121 AND C161 AND C159	C121 AND C161 AND C159	C121 AND C161 AND C159	E.1/89 AND E.1/98 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002
	Text attribute – underline on	Rel-5	5.8			C121 AND C162 AND C159	C121 AND C162 AND C159	C121 AND C162 AND C159	C121 AND C162 AND C159	E.1/89 AND E.1/98 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002
	Text attribute – strikethrough on	Rel-5	5.9			C121 AND C163 AND C159	C121 AND C163 AND C159	C121 AND C163 AND C159	C121 AND C163 AND C159	E.1/89 AND E.1/98 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – foreground and background colours	Rel-5	5.10			C121 AND C164 AND C165	C121 AND C164 AND C165	C121 AND C164 AND C165	C121 AND C164 AND C165	E.1/89 AND E.1/98 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	Yes		TCEP001, TCEP002
	Frames	Rel-6	TBD							E.1/89 AND E.1/98 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
32	**CLOSE CHANNEL 27.22.4.28**												
	successful	R99	1.1	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/90	Yes		
	with an invalid channel identifier	R99	1.2	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/90	Yes		
	on an already closed channel	R99	1.3	C121	C121	C121	C121	C121	C121	E.1/90	Yes		
	Text attribute – left alignment	Rel-5	2.1			C121 AND C153	C121 AND C153	C121 AND C153	C121 AND C153	E.1/89 AND E.1/90 AND E.1/124 AND E.1/217 AND E.1/110	Yes		TCEP001
	Text attribute – center alignment	Rel-5	2.2			C121 AND C154	C121 AND C154	C121 AND C154	C121 AND C154	E.1/89 AND E.1/90 AND E.1/124 AND E.1/218 AND E.1/110	Yes		TCEP001
	Text attribute – right alignment	Rel-5	2.3			C121 AND C155	C121 AND C155	C121 AND C155	C121 AND C155	E.1/89 AND E.1/90 AND E.1/124 AND E.1/219 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – large font size	Rel-5	2.4			C121 AND C157 AND C156	C121 AND C157AND C156	C121 AND C157 AND C156	C121 AND C157 AND C156	E.1/89 AND E.1/90 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	Yes		TCEP001
	Text attribute – small font size	Rel-5	2.5			C121 AND C158 AND C156	C121 AND C158AND C156	C121 AND C158 AND C156	C121 AND C158 AND C156	E.1/89 AND E.1/90 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	Yes		TCEP001
	Text attribute – bold on	Rel-5	2.6			C121 AND C160 AND C159	C121 AND C160 AND C159	C121 AND C160 AND C159	C121 AND C160 AND C159	E.1/89 AND E.1/90 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	Yes		TCEP001
	Text attribute – italic on	Rel-5	2.7			C121 AND C161 AND C159	C121 AND C161 AND C159	C121 AND C161 AND C159	C121 AND C161 AND C159	E.1/89 AND E.1/90 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	Yes		TCEP001
	Text attribute – underline on	Rel-5	2.8			C121 AND C162 AND C159	C121 AND C162 AND C159	C121 AND C162 AND C159	C121 AND C162 AND C159	E.1/89 AND E.1/90 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	Yes		TCEP001
	Text attribute – strikethrough on	Rel-5	2.9			C121 AND C163 AND C159	C121 AND C163 AND C159	C121 AND C163 AND C159	C121 AND C163 AND C159	E.1/89 AND E.1/90 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – foreground and background colours	Rel-5	2.10			C121 AND C164 AND C165	C121 AND C164 AND C165	C121 AND C164 AND C165	C121 AND C164 AND C165	E.1/89 AND E.1/90 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	Yes		TCEP001
	Frames	Rel-6	TBD							E.1/89 AND E.1/98 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
33	**RECEIVE DATA 27.22.4.29**												
	already opened channel	R99	1.1	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/91 AND E.1/92	Yes		
	Text attribute – left alignment	Rel-5	2.1			C121 AND C153	C121 AND C153	C121 AND C153	C121 AND C153	E.1/89 AND E.1/91 AND E.1/92 AND E.1/124 AND E.1/217 AND E.1/110	Yes		TCEP001
	Text attribute – center alignment	Rel-5	2.2			C121 AND C154	C121 AND C154	C121 AND C154	C121 AND C154	E.1/89 AND E.1/91 AND E.1/124 AND E.1/218 AND E.1/110	Yes		TCEP001
	Text attribute – right alignment	Rel-5	2.3			C121 AND C155	C121 AND C155	C121 AND C155	C121 AND C155	E.1/89 AND E.1/91 AND E.1/124 AND E.1/219 AND E.1/110	Yes		TCEP001
	Text attribute – large font size	Rel-5	2.4			C121 AND C157 AND C156	C121 AND C157AND C156	C121 AND C157 AND C156	C121 AND C157 AND C156	E.1/89 AND E.1/91 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Text attribute – small font size	Rel-5	2.5			C121 AND C158 AND C156	C121 AND C158AND C156	C121 AND C158 AND C156	C121 AND C158 AND C156	E.1/89 AND E.1/91 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	Yes		TCEP001
	Text attribute – bold on	Rel-5	2.6			C121 AND C160 AND C159	C121 AND C160 AND C159	C121 AND C160 AND C159	C121 AND C160 AND C159	E.1/89 AND E.1/91 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	Yes		TCEP001
	Text attribute – italic on	Rel-5	2.7			C121 AND C161 AND C159	C121 AND C161 AND C159	C121 AND C161 AND C159	C121 AND C161 AND C159	E.1/89 AND E.1/91 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	Yes		TCEP001
	Text attribute – underline on	Rel-5	2.8			C121 AND C162 AND C159	C121 AND C162 AND C159	C121 AND C162 AND C159	C121 AND C162 AND C159	E.1/89 AND E.1/91 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	Yes		TCEP001
	Text attribute – strikethrough on	Rel-5	2.9			C121 AND C163 AND C159	C121 AND C163 AND C159	C121 AND C163 AND C159	C121 AND C163 AND C159	E.1/89 AND E.1/91 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	Yes		TCEP001
	Text attribute– foreground and background colours	Rel-5	2.10			C121 AND C164 AND C165	C121 AND C164 AND C165	C121 AND C164 AND C165	C121 AND C164 AND C165	E.1/89 AND E.1/91 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	Yes		TCEP001
	Frames	Rel-6	TBD							E.1/89 AND E.1/91 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
34	**SEND DATA 27.22.4.30**												

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	immediate mode	R99	1.1	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/92	Yes		
	Store mode	R99	1.2	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/92	Yes		
	Store mode, Tx buffer fully used	R99	1.3	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/92	Yes		
	2 consecutive SEND DATA Store mode	R99	1.4	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/92	Yes		
	immediate mode with a bad channel identifier	R99	1.5	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/92	Yes		
	void										Yes		
	Text attribute– left alignment	Rel-5	2.1			C121 AND C153	C121 AND C153	C121 AND C153	C121 AND C153	E.1/89 AND E.1/92 AND E.1/124 AND E.1/217 AND E.1/110	Yes		TCEP001
	Text attribute – center alignment	Rel-5	2.2			C121 AND C154	C121 AND C154	C121 AND C154	C121 AND C154	E.1/89 AND E.1/92 AND E.1/124 AND E.1/218 AND E.1/110	Yes		TCEP001
	Text attribute – right alignment	Rel-5	2.3			C121 AND C155	C121 AND C155	C121 AND C155	C121 AND C155	E.1/89 AND E.1/92 AND E.1/124 AND E.1/219 AND E.1/110	Yes		TCEP001
	Text attribute – large font size	Rel-5	2.4			C121 AND C157 AND C156	C121 AND C157AND C156	C121 AND C157 AND C156	C121 AND C157 AND C156	E.1/89 AND E.1/92 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	Yes		TCEP001
	Text attribute – small font size	Rel-5	2.5			C121 AND C158 AND C156	C121 AND C158AND C156	C121 AND C158 AND C156	C121 AND C158 AND C156	E.1/89 AND E.1/92 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
	Text attribute – bold on	Rel-5	2.6			C121 AND C160 AND C159	C121 AND C160 AND C159	C121 AND C160 AND C159	C121 AND C160 AND C159	E.1/89 AND E.1/92 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	Yes		TCEP001
	Text attribute – italic on	Rel-5	2.7			C121 AND C161 AND C159	C121 AND C161 AND C159	C121 AND C161 AND C159	C121 AND C161 AND C159	E.1/89 AND E.1/92 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	Yes		TCEP001
	Text attribute – underline on	Rel-5	2.8			C121 AND C162 AND C159	C121 AND C162 AND C159	C121 AND C162 AND C159	C121 AND C162 AND C159	E.1/89 AND E.1/92 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	Yes		TCEP001
	Text attribute – strikethrough on	Rel-5	2.9			C121 AND C163 AND C159	C121 AND C163 AND C159	C121 AND C163 AND C159	C121 AND C163 AND C159	E.1/89 AND E.1/92 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	Yes		TCEP001
	Text attribute– foreground and background colours	Rel-5	2.10			C121 AND C164 AND C165	C121 AND C164 AND C165	C121 AND C164 AND C165	C121 AND C164 AND C165	E.1/89 AND E.1/92 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	Yes		TCEP001
	Frames	Rel-6	TBD							E.1/89 AND E.1/92 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
35	**GET CHANNEL STATUS 27.22.4.31**												
	without any BIP channel opened	R99	1.1	C121	C121	C121	C121	C121	C121	E.1/93	Yes		
	with a BIP channel currently opened	R99	1.2	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/93	Yes		
	after a link dropped	R99	1.3	C121	C121	C121	C121	C121	C121	E.1/89 AND E.1/93	Yes		

Item	Description	Release	Test sequence(s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
36	**DATA DOWNLOAD TO UICC 27.22.5**												
37	**SMS-PP DATA DOWNLOAD 27.22.5.1**												
	void		1.1										
	UICC responds with '61 XX'	R99	1.2	M	M	M	M	M	M	E.1/2	Yes		
	More time	R99	1.3	M	M	M	M	M	M	E.1/2	Yes		
	void		1.4										
	Data coding / message class	R99	1.6	M	M	M	M	M	M	E.1/2	Yes		
	RP-ERROR Handling	R99	1.7				M	M	M	E 1/2	Yes		
	General Data Coding UDH	R99	1.8	M	M	M	M	M	M	E 1/2	Yes		
38	**CELL BROADCAST DATA DOWNLOAD 27.22.5.2**												
	Cell Broadcast(GSM) - ME does not display message	R99	1.1	C167	C167	C167	C167	C167	C167	E.1/3	System Simulator only		
	void		1.2										
	Cell Broadcast(GSM) - ME displays message	R99	1.3	C167 AND C177	C167 AND C177	C167 AND C177	C167 AND C177	C167 AND C177	C167 AND C177	E.1/3 AND E.1/110	System Simulator only		
	Cell Broadcast (UTRAN) - ME does not display message	Rel-5	1.4							E.1/3	UMTS System Simulator only		
	Cell Broadcast (UTRAN) -More time	Rel-5	1.5							E.1/3 AND E.1/20	UMTS System Simulator only		
	Cell Broadcast(UTRAN) - ME displays message	Rel-5	1.6							E.1/3	UMTS System Simulator only		
	Cell Broadcast(GSM) - More time (UDH)	R99	1.7	C167	C167	C167	C167	C167	C167	E.1/3 AND E.1/20	System Simulator only		
39	**CALL CONTROL BY USIM 27.22.6**												
	Procedure for MO calls (Cell identity in envelope call control)	R99	1.1, 1.2, 1.4, 1.6, 1.8 to 1.14	C180	C180	C180	C180	C180	C180	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	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	Procedure for MO calls (Cell identity in envelope call control)	R99	1.3 A, 1.5 A, 1.7 A	C140 AND C177 AND C178 AND C180	C140 AND C177 AND C178 AND C180	C140 AND C177 AND C178 AND C180	C140 AND C177 AND C178 AND C180	C140 AND C177 AND C178 AND C180	C140 AND C177 AND C178 AND C180	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 AND E.1/110 AND E.1/111	Yes		
	Procedure for MO calls (Cell identity in envelope call control)	R99	1.3 B, 1.7 B	C141 AND C177 AND C178 AND C180	C141 AND C177 AND C178 AND C180	C141 AND C177 AND C178 AND C180	C141 AND C177 AND C178 AND C180	C141 AND C177 AND C178 AND C180	C141 AND C177 AND C178 AND C180	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 AND E.1/110 AND E.1/111	Yes		
	Procedure for MO calls (Cell identity in envelope call control)	R99	1.5 B	C141 AND C180	C141 AND C180	C141 AND C180	C141 AND C180	C141 AND C180	C141 AND C180	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	Yes		
	Procedure for SS (Cell identity in envelope call control)	R99	2.1, 2.2, 2.3, 2.4	C174	C174	C174	C174	C174	C174	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	Yes		
	Interaction with FDN (Cell identity in envelope call control)	R99	3.1, 3.2, 3.3, 3.4, 3.5	C146 AND C180	C146 AND C180	C146 AND C180	C146 AND C180	C146 AND C180	C146 AND C180	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	Yes		
	BDN service enabled	R99	4.1	C147 AND C177 AND C178 AND C180	C147 AND C177 AND C178 AND C180	C147 AND C177 AND C178 AND C180	C147 AND C177 AND C178 AND C180	C147 AND C177 AND C178 AND C180	C147 AND C177 AND C178 AND C180	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/110 AND E.1/111	Yes		

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	BDN service enabled, interaction with emergency call codes, R99 only	R99	4.2A	C147 AND C180						E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	Yes		
	BDN service enabled, interaction with emergency call codes, Rel-4+	Rel-4	4.2B		C147 AND C180	C147 AND C180	C147 AND C180	C147 AND C180	C147 AND C180	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 ND E.1/64	Yes		
	FDN and BDN enabled, set up a call in EFFDN, Allowed with modifications	R99	4.3	C146 AND C147 AND C177 AND C180	C146 AND C147 AND C177 AND C180	C146 AND C147 AND C177 AND C180	C146 AND C147 AND C177 AND C180	C146 AND C147 AND C177 AND C180	C146 AND C147 AND C177 AND C180	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/110	Yes		
	Call control on GPRS	Rel-5	TBD							E.1/98 AND E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13	TBD		
	BDN service enabled, ME not supporting BDN	R99	5.1			C176 AND C180	C176 AND C180	C176 AND C180	C176 AND C180	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	Yes		
40	**EVENT DOWNLOAD 27.22.7**												
	27.22.7.1: MT call event	R99	1.1	C180	C180	C180	C180	C180	C180	E.1/34 AND E.1/33	Yes		
	27.22.7.2.1: call connected event	R99	1.1	C180	C180	C180	C180	C180	C180	E.1/35 AND E.1/33	Yes		
	27.22.7.2.2: ME supporting SET UP CALL	R99	2.1	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180	E.1/35 AND E.1/29 AND E.1/33 AND E.1/110 AND E.1/111	Yes		
	27.22.7.3: call disconnected event	R99	1.1	C180	C180	C180	C180	C180	C180	E.1/36 AND E.1/33	Yes		
	27.22.7.4: location status event	R99	1.1	M	M	M	M	M	M	E.1/37 AND E.1/33	Yes		
	27.22.7.5: user activity event	R99	1.1	C179	C179	C179	C179	C179	C179	E.1/38 AND E.1/33 AND E.1/111	No		

Item	Description	Release	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Support	
	27.22.7.6: idle screen available event	R99	1.1	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	C177 AND C178	E.1/39 AND E.1/33 AND E.1/110 AND E.1/111	Yes		
	27.22.7.7.1: Card reader status normal	R99	1.1	C109	C109	C109	C109	C109	C109	E.1/40 AND E.1/33	No		
	27.22.7.7.2: Detachable card reader	R99	2.1	C116	C116	C116	C116	C116	C116	E.1/40 AND E.1/33	No		
	27.22.7.8: language selection event	R99	1.1	C177 AND C178 AND C181	C177 AND C178 AND C181	C177 AND C178 AND C181	C177 AND C178 AND C181	C177 AND C178 AND C181	C177 AND C178 AND C181	E.1/41 AND E.1/33 AND E.1/110 AND E.1/111	No		
	27.22.7.9: Browser termination event	R99	1.1	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	C111 AND C177 AND C178	E.1/42 AND E.1/33 AND E.1/110 AND E.1/111	Yes		
	27.22.7.10: Data available event	R99	1.1	C121	C121	C121	C121	C121	C121	E.1/43 AND E.1/89 AND E.1/92 AND E.1/33	Yes		
	27.22.7.11: Channel status event	R99	1.1	C121	C121	C121	C121	C121	C121	E.1/44 AND E.1/89 AND E.1/33	Yes		
	27.22.7.12: Access Technology change event	Rel-4	TBD							E.1/45 AND E.1/33	TBD		
	27.22.7.13: Display parameter changed event	Rel-4	TBD							E.1/46 AND E.1/33	TBD		
	27.22.7.14: Local connection event	Rel-4	TBD							E.1/47 AND E.1/33	TBD		
	27.22.7.15: Network search mode change event	Rel-6	TBD							E.1/48 AND E.1/33	TBD		
	27.22.7.16: Browsing status event	Rel-6	TBD							E.1/193 AND E.1/33	TBD		
	Frame information changed event	Rel-6	TBD							E.1/195 AND E.1/177 AND E.1/178	TBD		
41	**MO SMS Control by USIM 27.22.8**												
	With proactive command, Allowed , no modification	R99	1.1	M	M	M	M	M	M	E1/12 AND E.1/26 AND E.1/110	Yes		TCEP001

Item	Description	Re-lease	Test sequence (s)	Rel 99 ME	Rel-4 ME	Rel-5 ME	Rel-6 ME	Rel-7 ME	Rel-8 ME	Terminal Profile	Network Dependency	Sup-port	
	With user SMS, Allowed , no modification	R99	1.2	M	M	M	M	M	M	E1/12	Yes		
	With proactive command, Not allowed	R99	1.3	M	M	M	M	M	M	E1/12 AND E.1/26 AND E.1/110	Yes		TCEP001
	With user SMS, Not allowed	R99	1.4	M	M	M	M	M	M	E1/12	Yes		
	With proactive command, Allowed, with modifications	R99	1.5	M	M	M	M	M	M	E1/12 AND E.1/26 AND E.1/110	Yes		TCEP001
	With user SMS, Allowed, with modifications	R99	1.6	M	M	M	M	M	M	E1/12	Yes		
	With Proactive command, the USIM responds with '90 00', Allowed, no modification	R99	1.7	M	M	M	M	M	M	E1/12 AND E.1/26 AND E.1/110	Yes		TCEP001
	Send Short Message attempt by user, the USIM responds with '90 00', Allowed, no modification	R99	1.8	M	M	M	M	M	M	E1/12	Yes		
	Void		1.9										
42	**SERVICE SEARCH**	Rel-4	TBD							E.1/94	TBD		
43	**GET SERVICE INFORMATION**	Rel-4	TBD							E.1/95	TBD		
44	**DECLARE SERVICE**	Rel-4	TBD							E.1/96	TBD		
45	**RETRIEVE MULTIMEDIA MESSAGE**	Rel-6	TBD							E.1/173	TBD		
46	**SUBMIT MULTIMEDIA MESSAGE**	Rel-6	TBD							E.1/173	TBD		
47	**DISPLAY MULTIMEDIA MESSAGE**	Rel-6	TBD							E.1/173	TBD		
48	**SET FRAMES**	Rel-6	TBD							E.1/177 AND E.1/178	TBD		
49	**GET FRAME STATUS**	Rel-6	TBD							E.1/178 AND E.1/177	TBD		
50	**Handling of command number 27.22.9**												
	DISPLAY TEXT normal priority	R99	1.1	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/110	No		

C101	IF A.1/1 THEN M ELSE N/A	-- O_Cap_Conf
C102	IF A.1/16 THEN M ELSE N/A	-- O_GPRS
C103	void	
C104	IF A.1/2 THEN M ELSE N/A	-- O_Sust_text
C105	IF A.1/3 AND A.1/41 THEN M ELSE N/A	-- O_Ucs2_Entry AND O_UCS2_Cyrillic
C106	IF A.1/4 THEN M ELSE N/A	-- O_Ext_Str
C107	IF A.1/5 THEN M ELSE N/A	-- O_Help
C108	IF A.1/6 THEN O.1 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.1/46 THEN M ELSE N/A	-- O_Run_At AND O_+CIMI
C111	IF A.1/10 THEN M ELSE N/A	-- O_LB
C112	IF A.1/11 THEN M ELSE N/A	-- O_Soft_key
C113	void	
C114	IF C110 AND C108 THEN O.1 ELSE N/A	-- O_Run_At AND O_+CIMI AND O_Icons
C115	IF C111 AND C108 THEN M ELSE N/A	-- O_LB AND O_Icons
C116	IF A.1/7 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_Cyrillic
C119	IF A.1/19 THEN M ELSE N/A	-- O_Redial
C120	IF A.1/20 THEN M ELSE N/A	-- O_D_NoResp
C121	IF A.1/21 AND A.1/17 THEN M ELSE N/A	-- O_BIP_GPRS AND O_UDP
C122	IF C111 AND A.1/16 THEN M ELSE N/A	-- O_LB AND O_GPRS
C123	void	
C124	IF A.1/22, test x.A M ELSE x.B M (where x is the expected sequence number value)	-- O_CP_Subaddr
C125	IF A.1/23 THEN M ELSE N/A	-- O_Imm_Resp
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	IF A.1/38 THEN M ELSE N/A	-- O_MMS
C135	IF C110 AND C133 THEN M ELSE N/A	-- O_Run_At AND O_Frames
C136	IF C111 AND C133 THEN M ELSE N/A	-- O_LB AND O_Frames
C137	IF A.1/12 AND C133 THEN M ELSE N/A	-- O_BIP AND O_Frames
C138	IF A.1/82 THEN M ELSE N/A	-- O_M_T_Tones
C139	IF A.1/35 THEN M ELSE N/A	-- O_Batt
C140	IF A.1/39 THEN M ELSE N/A	-- O_UC_Before_EnvCC
C141	IF A.1/40 THEN M ELSE N/A	-- O_UC_After_EnvCC
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
C146	IF A. 1/45 THEN M ELSE N/A	-- O_FDN
C147	IF A. 1/44 THEN M ELSE N/A	-- O_BDN
C148	IF (A.1/9 AND A.1/47) THEN M ELSE N/A	-- O_Run_At AND O_+CGMI
C149	IF C148 AND C118 THEN M ELSE N/A	-- O_Run_At AND O_+CGMI AND O_ O_Ucs2_Disp AND O_Ucs2_ Cyrillic
C150	IF C148 AND C143 THEN M ELSE N/A	-- O_Run_At AND O_+CGMI AND O_ O_Ucs2_Disp AND O_Ucs2_ Chinese
C151	IF C148 AND C145 THEN M ELSE N/A	-- O_Run_At AND O_+CGMI AND O_ O_Ucs2_Disp AND O_Ucs2_ Katakana
C152	IF C121 AND A.1/49 THEN M ELSE N/A	-- O_BIP_GPRS AND O_UDP AND O_BUFFER_SIZE
C153	IF A.1/50 THEN M ELSE N/A	-- O_TAT_AL

C154	IF A.1/51 THEN M ELSE N/A	-- O_TAT_AC
C155	IF A.1/52 THEN M ELSE N/A	-- O_TAT_AR
C156	IF A.1/53 THEN M ELSE N/A	-- O_TAT_FSN
C157	IF A.1/54 THEN M ELSE N/A	-- O_TAT_FSL
C158	IF A.1/55 THEN M ELSE N/A	-- O_TAT_FSS
C159	IF A.1/56 THEN M ELSE N/A	-- O_TAT_SN
C160	IF A.1/57 THEN M ELSE N/A	-- O_TAT_SB
C161	IF A.1/58 THEN M ELSE N/A	-- O_TAT_SI
C162	IF A.1/59 THEN M ELSE N/A	-- O_TAT_SU
C163	IF A.1/60 THEN M ELSE N/A	-- O_TAT_SS
C164	IF A.1/61 THEN M ELSE N/A	-- O_TAT_STFC
C165	IF A.1/62 THEN M ELSE N/A	-- O_TAT_STBC
C166	IF A.1/63 THEN test step option n.A M ELSE test step option n.B M	-- O_longFTN
C167	IF A.1/64 THEN M ELSE N/A	-- O_GERAN
C168	IF A.1/65 THEN M ELSE N/A	-- O_Global_PB

C169	IF (C121 AND A.1/68 THEN test x.A M ELSE
	IF (C121 AND NOT A.1/68) test x.B M
		-- (O_BIP_GPRS AND O_UDP AND O_User_Confirm_Before_PDP_Context_Request) OR (O_BIP_GPRS AND O_UDP AND NOT O_User_Confirm_Before_PDP_Context_Request)

C170	IF A.1/69 THEN M ELSE N/A	-- O_Serv_SS_HOLD
C171	IF A.1/6 THEN O.2 ELSE N/A	-- O_Icons
C172	IF A.1/6 THEN O.4 ELSE N/A	-- O_Icons
C173	IF C110 AND A.1/6 THEN O.2 ELSE N/A	-- O_Run_At AND O_+CIMI AND O_Icons
C174	IF A.1/78 AND A.1/79 THEN M ELSE N/A	-- O_AddInfo_SS AND_O_Serv_SS_CFU
C175	IF A.1/78 AND A.1/80 THEN M ELSE N/A	-- O_AddInfo_SS AND O_Serv_SS_CLIR
C176	IF A. 1/44 THEN N/A ELSE M	-- O_BDN
C177	IF A.1/84 THEN M ELSE N/A	-- O_No_Type_ND
C178	IF A.1/85 THEN M ELSE N/A	-- O_No_Type_NK
C179	IF A.1/86 THEN M ELSE N/A	-- O_No_Type_NA
C180	IF A.1/87 THEN M ELSE N/A	-- O_No_Type_NS
C181	IF A.1/88 THEN M ELSE N/A	-- O_No_Type_NL

O.1	IF A.1/75 tests x.yA M ELSE tests x.yB M (where x.y is the expected sequence number value)
O.2	IF A.1/76 tests x.yA M ELSE tests x.yB M (where x.y is the expected sequence number value)
O.3	void
O.4	IF A.1/75 AND A.1/77 tests x.yA M ELSE tests x.yB M (where x.y is the expected sequence number value)

TCEP001	During the test execution, the display or the non-display of any alpha identifier, text string or icon shall be treated as successfully verified.
TCEP002	The terminal may open the channel without explicit confirmation by the user.

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 is specified in TS 34.108 [12] clause 4.

5 Testing methodology in general

When possible the present document refers to ETSI TS 102 384 [26] to describe generic aspects of application toolkit tests.

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 ME.

5.2 Test interfaces and facilities

The UICC, and (U)SS interfaces provides the main test interfaces for the purpose of performing conformance tests.

The tests which require a network simulator shall be carried out with using a Universal System Simulator when accessing a UTRAN, and if theses tests have to be peformed additionally when accessing a GERAN a System Simulator shall be used instead.

5.3 Information to be provided by the apparatus supplier

The information to be provided by the apparatus supplier specified in both TS 34.108 [12] and TS 51.010-1 [23] shall apply, unless otherwise specified in the present clause.

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

Table A.2: ME"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 Attributes Alignment [Left or Center or Right]		C
6	GET INKEY Text Attributes Alignment [Left or Center or Right]		C
7	GET IMPUT Text Attributes Alignment [Left or Center or Right]		C
8	PLAY TONE Text Attributes Alignment [Left or Center or Right]		C
9	SET UP MENU Text Attributes Alignment [Left or Center or Right]		C
10	SELECT ITEM Text Attributes Alignment [Left or Center or Right]		C
11	SEND SHORT MESSAGE Text Attributes Alignment [Left or Center or Right]		C
12	SEND SS Text Attributes Alignment [Left or Center or Right]		C
13	SEND USSD Text Attributes Alignment [Left or Center or Right]		C
14	SET UP CALL Text Attributes Alignment [Left or Center or Right]		C
15	SET UP IDLE MODE TEXT Text Attributes Alignment [Left or Center or Right]		C
16	RUN AT Text Attributes Alignment [Left or Center or Right]		C
17	SEND DTMF Text Attributes Alignment [Left or Center or Right]		C
18	LAUNCH BROWSER Text Attributes Alignment [Left or Center or Right]		C
19	OPEN CHANNEL Text Attributes Alignment [Left or Center or Right]		C
20	CLOSE CHANNEL Text Attributes Alignment [Left or Center or Right]		C
21	RECEIVE DATA Text Attributes Alignment [Left or Center or Right]		C
22	SEND DATA Text Attributes Alignment [Left or Center or Right]		C
23	IMEI		M
24	IMEISV		C
25	[Reserved]		
26	Additional Card Reader Id		C
27	Channel Id		C
28	Manufacturer identification as implemented according to TS 27.007, cl. 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 Implicit testing

For some 3GPP features conformance is not verified explicitly in the present document. This does not imply that correct functioning of these features is not essential, but that these are implicitly tested to a sufficient degree in other tests.

It should be noted that for these features some aspects have to be and are explicitly tested, e.g. the ability to switch between 1.8v and 3v operation.

Some UICC features will be explicitly tested as result of other tests. These should be identified for the following reason:

- To identify the areas of overlap and thus provide a more efficient testing.

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, 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 for PS and CS calls specified for GERAN and UTRAN shall apply.

For a ME accessing UTRAN the call set up procedures specified in TS 34.108 [12] subclause 7.2.3.1.3 and 7.2.3.2.3 shall apply, for session setup the ones defined in 7.2.4.1.3 and 7.2.4.2.3, unless otherwise specified in the present clause.

For a ME accessing GERAN the call set up procedures specified in TS 51.010-1 [23] subclause 26.9 shall apply, for session setup the ones defined in 45.2 and 45.4, unless otherwise specified in the present clause.

10 - 26Not used

27 Testing of the UICC/ME interface

This clause is an addition to TS 31.121 [21] to confirm the correct interpretation of the USIM Application Toolkit commands and the correct operation of the Toolkit facilities.

The definitions, declarations and default values specified in TS 31.121 [21] clause 4.1 shall apply, unless otherwise specified in the present clause.

A USIM Simulator with the appropriate USIM Application Toolkit functionality will be required. The USIM 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 31.111 [15]. This means that in cases where it is up to the ME to decide if this flag is used or not, the corresponding Tag coding in the TERMINAL RESPONSEs and ENVELOPEs in this document represents only one of the two valid possibilities.

TS 31.111 [15] defines that in case of the general result "Command performed successfully" some proactive commands require additional information in the command result and in which cases this is mandatory or optional. Thus when additional information bytes are optional in the Result TLV, the additional information bytes of the Result TLVin the Terminal Responses shall be ignored.

27.1 - 27.21 Void

27.22 USIM Application Toolkit

27.22.1AGeneral Test purpose

Testing of functional conformance to USIM Application Toolkit commands, including proactive UICC commands.

All facilities 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 ME to optionally display on the screen along with any other indications, at the same time as the ME performs the UICC command.

Note: The sequence of USIM 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.

27.22.2ADefinition of default values for USIM 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 USIM follow, as defined in:

- TS 31.121 [21], clause 4.1.
- ETSI TS 102 384 [26], clause 27.22.1B.

Note 1: Bx represents byte x of the coding.

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

EF$_{UST}$ (USIM Service Table)

Logically:

(Service 01)	Local Phone Book available
(Service 02)	Fixed dialling numbers available
(Service 06)	Barred dialling numbers available
(Service 10)	Short Message Storage available
(Service 11)	Short Message Status Reports available
(Service 12)	Short Message Service Parameters available
(Service 15)	Cell Broadcast Message Identifier available
(Services 17, 18)	The Group Identifier level 1 and level 2 not available
(Service 20)	User controlled PLMN selector available
(Service 22)	Image (IMG) available
(Service 27)	The GSM Access available
(Service 28)	Data download via SMS-PP available
(Service 29)	Data download via SMS-CB available
(Service 30)	Call Control by USIM not available
(Service 31)	MO-SMS Control by USIM not available
(Service 32)	RUN AT COMMAND available
(Service 33)	(Packed Switched Domain) shall be set to '1'
(Service 34)	Enabled Services Table available

Coding:	B1	B2	B3	B4	B5
binary	xx1x xx11	x1xx 111x	xx1x 1x00	1001 11xx	xxx xx11

The coding of EF$_{UST}$ shall conform with the capabilities of the USIM used.

EF$_{EST}$ (Enabled Services Table)

Logically:

(Service 1)	Fixed Dialling number deactivated
(Service 2)	Barred Dialling number deactivated
(Service 3)	APN Control List deactivated

Coding:	B1
binary	00

EF$_{IMSI}$ (International Mobile Subscriber Identity)

Logically:

Length:	8 bytes
IMSI:	001 01 0123456789

Coding:	'08 09 10 10 10 32 54 76 98'

EF$_{AD}$ (Administrative Data)

Logically: Type approval operations
OFM to be deactivated by the Terminal
MNC: 2 digit

Coding:	B1	B2	B3	B4
Hex	80	00	00	02

EF$_{LOCI}$ (Location Information)

Logically:

LAI-MCC: 001
LAI-MNC: 01
LAI-LAC: 0001
TMSI: "FF .. FF"

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	FF	FF	FF	FF	00	F1	10	00	01	FF	00

EF$_{PSLOCI}$ (Packet Switch Location Information)

Logically:

RAI-MCC: 001
RAI-MNC: 01
RAI-LAC: 0001
RAI-RAC: 05
P-TMSI: "FF….FF"
P-TMSI signature value:"FF…FF"

Coding:	B1	B2	B3	B4	B5	B6	B7
Hex	FF	FF	FF	FF	FF	FF	FF

Coding:	B8	B9	B10	B11	B12	B13	B14
Hex	00	F1	10	00	01	05	00

EF$_{CBMI}$ (Cell Broadcast Message Identifier)

Logically:

Cell Broadcast Message Identifier 1: '03 E7'

Coding:	03	E7	FF	..	FF						

EF$_{CBMID}$ (Cell Broadcast Message Identifier for Data Download)

Logically:

Cell Broadcast Message Identifier 1: '10 01'

Coding:	10	01	FF	..	FF						

EF$_{FDN}$ (Fixed Dialling Numbers)

Logically:

Record 1: Length of alp ha identifier: 6 characters;
Alpha identifier: "FDN111";

Length of BCD number: "03";
TON and NPI: Telephony and unknown;
Dialled number: 123;
CCI: None;
Ext2: None.

Coding for record 1:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	46	44	4E	31	31	31	03	81	21	F3	FF	FF	FF

	B14	B15	B16	B17	B18	B19	B20
	FF	FF	FF	FF	FF	FF	FF

Record 2: Length of alpha identifier: 6 characters;
Alpha identifier: "FDN222";
Length of BCD number: "03";
TON and NPI: Telephony and Unknown;
Dialled number: 9876;
CCI: None;
Ext2: None.

Coding for record 2:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	46	44	4E	32	32	32	03	81	89	67	FF	FF	FF

	B14	B15	B16	B17	B18	B19	B20
	FF	FF	FF	FF	FF	FF	FF

Record 3: Length of alpha identifier: 6 characters;
Alpha identifier: "FDN333";
Length of BCD number: "0B";
TON and NPI: Telephony and International;
Dialled number: +12345678901234567890;
CCI: None;
Ext2: None.

Coding for record 3:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	46	44	4E	33	33	33	0B	91	21	43	65	87	09

	B14	B15	B16	B17	B18	B19	B20
	21	43	65	87	09	FF	FF

EF$_{BDN}$ (Barred Dialling Numbers)

Logically:

Record 1: Length of alpha identifier: 6 characters;
Alpha identifier: "BDN111";
Length of BCD number: "06";
TON and NPI: Telephony and International;
Dialled number: +1357924680;
CCI: None;
Ext4: None
Comprehension method pointer: None.

Coding for record 1:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	31	31	31	06	91	31	75	29	64	08

	B14	B15	B16	B17	B18	B19	B20	B21
	FF	FF	FF	FF	FF	FF	FF	FF

Record 2:
Length of alpha identifier: 6 characters;
Alpha identifier: "BDN222";
Length of BCD number: "03";
TON and NPI: Telephony and Unknown;
Dialled number: 122;
CCI: None;
Ext4: None
Comprehension method pointer: None.

Coding for record 2:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	32	32	32	04	81	21	F2	FF	FF	FF

	B14	B15	B16	B17	B18	B19	B20	B21
	FF	FF	FF	FF	FF	FF	FF	FF

Record 3:
Length of alpha identifier: 6 characters;
Alpha identifier: "BDN333";
Length of BCD number: "03";
TON and NPI: Telephony and Unknown;
Dialled number: 112;
CCI: None;
Ext4: None.
Comprehension method pointer: None

Coding for record 3:

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
Hex	42	44	4E	33	33	33	03	81	11	F2	FF	FF	FF

	B14	B15	B16	B17	B18	B19	B20	B21
	FF	FF	FF	FF	FF	FF	FF	FF

EF$_{ECC}$ (Emergency Call Codes)

Logically:
Emergency call code: "122";
Emergency call code alpha identifier: "TEST";
Emergency call Service Category: RFU

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	21	F2	FF	54	45	53	54	00

EF$_{SMSS}$ (SMS Status)

Logically:
Last used TP-MR set to"00".
Memory capacity available (flag unset b1="1").

Coding:	B1	B2
Hex	00	FF

EF$_{SMSP}$ (Short message service parameters)

Logically:

Record 1:
Record length: 28 bytes
Parameter Indicators:
TP-Destination Address: Parameter absent
TS-Service Centre Address: Parameter present
TP-Protocol Identifier: Parameter absent
TP-Data Coding Scheme: Parameter absent
TP-Validity Period: Parameter absent
TS-Service Centre Address:
TON: International Number
NPI: "ISDN / telephone numbering plan"
Dialled number string: "112233445566778"

Coding:	B1	B2	B3	...	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23
Record 1:	FD	FF	FF	...	FF	09	91	11	22	33	44	55	66	77	F8

B24	B25	B26	B27	B28
FF	FF	FF	FF	FF

For the display of icon: See ETSI TS 102 384 [26] subclause 27.22.1B.

27.22.1 Initialization of USIM Application Toolkit Enabled UICC by USIM Application Toolkit Enabled ME (Profile Download)

27.22.1.1 Definition and applicability

See clause 3.2.2.

27.22.1.2 Conformance requirement

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

- TS 31.111 [15] clause 5.2.

27.22.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM 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 → ME	Power on ME	[UICC Activation]
2	ME → UICC	Select EF PL	
3	UICC → ME	Read EF PL	
4	ME → UICC	TERMINAL PROFILE 1.1	PROFILE DOWNLOAD
5	UICC → ME	NORMAL ENDING OF COMMAND 1.1	
6	ME → UICC	Select USIM 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 USIM Toolkit commands supported by the ME, and with YY, ZZ, … representing here the bytes of the TERMINAL PROFILE data, as specified in TS 31.111 [15], clause 5.2.

NORMAL ENDING OF COMMAND: 1.1

Logically:

Coding:

SW1=90	SW2=00

27.22.1.5 Test requirement

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

- TS 31.111 [15] 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 USIM Application Toolkit facilities are supported by the ME, to determine which subsequent tests are required.

27.22.2.4 Method of test

27.22.2.4.1 Initial conditions

The ME is connected to the USIM Simulator. All elementary files are coded as the default USIM Application Toolkit personalization.

27.22.1.4.2 Procedure

a) The ME is powered on.

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

c) The USIM 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 ME sending the TERMINAL PROFILE command to the USIM Simulator.

27.22.2.5 Test requirement

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

2) In table E.1 for the corresponding ME USIM 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 currently tested 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 USIM Application Toolkit command from the UICC the ME shall perform the FETCH command to retrieve the proactive UICC command. The result of the executed command shall be transmitted from the ME to the UICC within a TERMINAL RESPONSE command.

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

- TS 31.111 [15] clause 6.3.

27.22.3.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

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

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

The USIM Simulator is configured to monitor the UICC - ME interface.

27.22.3.4.2 Procedure

a) The ME is powered on.

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

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

27.22.3.5 Test requirement

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

2) After step c) the ME 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 ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

TS 31.111 [15], clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

27.22.4.1.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.1.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.2.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.3.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.4.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.5.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.6.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.7.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.8.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.9.

27.22.4.1.1.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.1.2.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

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

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

The USIM 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.2.4.2, Expected Sequence.

2.1.27.22.4.1.2.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.15.

27.22.4.1.3.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.3.4.2, Expected Sequence 3.1.

27.22.4.1.3.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.15, clause 8.15.

27.22.4.1.4.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as USIM Application Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.4.4.2, Expected Sequence 4.1.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.4.4.2, Expected Sequence 4.2.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.4.4.2, Expected Sequence 4.3.

Expected Sequence 4.4 (DISPLAY TEXT, sustained text, wait for high priority event to clear, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 4.4.1	[wait for user to clear message]
4	ME → USER	Display "Toolkit Test 4"	
5	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 4.4.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	ME → USER	Display of "Toolkit Test 4"	Text shall sustain until - a higher priority event occurs.
8	USS → ME	INCOMING MOBILE TERMINATED CALL	

PROACTIVE COMMAND: DISPLAY TEXT 4.4.1

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 4"
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	34	AB	00						

TERMINAL RESPONSE: DISPLAY TEXT 4.4.1

Logically:

Command details
  Command number: 1
  Command type: DISPLAY TEXT
  Command qualifier: normal priority, wait for user to clear message
Device identities
  Source device: ME
  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 ME shall operate in the manner defined in expected sequences 4.1 to 4.4.

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 ME shall support the DISPLAY TEXT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

27.22.4.1.5.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.1A.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.1B.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.2A.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.2B.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.3A.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.3B.27.22.4.1.5.5 Test requirement

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

27.22.4.1.6 DISPLAY TEXT (UCS2 display 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 ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

The ME shall support the UCS2 alphabet for the coding of the Cyrillic alphabet, as defined in the following technical specification: ISO/IEC 10646 [17].

27.22.4.1.6.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.6.4.2, Expected Sequence 6.1.

27.22.4.1.6.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31 and clause 8.43.

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

27.22.4.1.7.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.7.4.2, Expected Sequence 7.1.

27.22.4.1.7.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.1.4.2, Expected Sequence 8.1.

27.22.4.1.8.1.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.2.4.2, Expected Sequence 8.2.

27.22.4.1.8.2.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.3.4.2, Expected Sequence 8.3.

27.22.4.1.8.3.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.4.4.2, Expected Sequence 8.4.

27.22.4.1.8.4.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.5.4.2, Expected Sequence 8.5.

27.22.4.1.8.5.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.6.4.2, Expected Sequence 8.6.

27.22.4.1.8.6.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.7.4.2, Expected Sequence 8.7.

27.22.4.1.8.7.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.8.4.2, Expected Sequence 8.8.

27.22.4.1.8.8.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.9.4.2, Expected Sequence 8.9.

27.22.4.1.8.9.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.10.4.2, Expected Sequence 8.10.

27.22.4.1.8.10.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

The ME shall support the UCS2 alphabet for the coding of the Chinese characters, as defined in the following technical specification: ISO/IEC 10646 [17].

27.22.4.1.9.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

The ME 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 – Chinese characters)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.9.4.2, Expected Sequence 9.1.

27.22.4.1.9.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

The ME shall support the UCS2 alphabet for the coding of the Katakana characters, as defined in the following technical specification: ISO/IEC 10646 [17].

27.22.4.1.10.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

The ME 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 – Katakana characters)

See ETSI TS 102 384 [26] in subclause 27.22.4.1.10.4.2, Expected Sequence 10.1.

27.22.4.1.10.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.2.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.1.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (GET INKEY, backward move)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.3.

Expected Sequence 1.4 (GET INKEY, abort)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.4.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.5.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.6.

27.22.4.2.1.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.2.2.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

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

The USIM 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.2.4.2, Expected Sequence 2.1.

27.22.4.2.2.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.3.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.3.4.2, Expected Sequence 3.1.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.2.3.4.2, Expected Sequence 3.2.

27.22.4.2.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 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 ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.4.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.4.4.2, Expected Sequence 4.1.

27.22.4.2.4.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.2.5.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.5.4.2, Expected Sequence 5.1.

27.22.4.2.5.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

27.22.4.2.6.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.1A.

Expected Sequence 6.1B (GET INKEY, Basic icon, self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.1B.

Expected Sequence 6.2A (GET INKEY, Basic icon, non self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.2A.

Expected Sequence 6.2B (GET INKEY, Basic icon, non self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.2B.

Expected Sequence 6.3A (GET INKEY, Colour icon, self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.3A.

Expected Sequence 6.3B (GET INKEY, Colour icon, self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.3B.

Expected Sequence 6.4A (GET INKEY, Colour icon, non self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.4A.

Expected Sequence 6.4B (GET INKEY, Colour icon, non self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.4B.

27.22.4.2.6.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

27.22.4.2.7.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.7.4.2, Expected Sequence 7.1.

27.22.4.2.7.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

27.22.4.2.8.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.8.4.2, Expected Sequence 8.1.

27.22.4.2.8.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.1.4.2, Expected Sequence 9.1.

27.22.4.2.9.1.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.2.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.2.4.2, Expected Sequence 9.2.

27.22.4.2.9.2.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.3.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.3.4.2, Expected Sequence 9.3.

27.22.4.2.9.3.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.4.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.4.4.2, Expected Sequence 9.4.

27.22.4.2.9.4.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.5.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.5.4.2, Expected Sequence 9.5.

27.22.4.2.9.5.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.6.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.6.4.2, Expected Sequence 9.6.

27.22.4.2.9.6.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.7.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.7.4.2, Expected Sequence 9.7.

27.22.4.2.9.7.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.8.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.8.4.2, Expected Sequence 9.8.

27.22.4.2.9.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.8.

27.22.4.2.9.9 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.9.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.9.4.2, Expected Sequence 9.9.

27.22.4.2.9.9.5 Test requirement

The ME 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 ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.10.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.10.4.2, Expected Sequence 9.10.

27.22.4.2.9.10.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.10.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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 - Chinese characters, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.10.4.2, Expected Sequence 10.1.

Expected Sequence 10.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet - Chinese characters, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.10.4.2, Expected Sequence 10.2.

27.22.4.2.10.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Chinese character, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.11.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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 - Chinese characters, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.11.4.2, Expected Sequence 11.1.

27.22.4.2.11.5 Test requirement

The ME shall operate in the manner defined in expected sequence 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 ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.12.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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 - Katakana characters, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.12.4.2, Expected Sequence 12.1.

Expected Sequence 12.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet - Katakana characters, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.12.4.2, Expected Sequence 12.2.

27.22.4.2.12.5 Test requirement

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

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.2.13.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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 - Katakana characters, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.2.13.4.2, Expected Sequence 13.1.

27.22.4.2.13.5 Test requirement

The ME shall operate in the manner defined in expected sequence 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.3.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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, ME to echo text, ME supporting 8 bit data Message)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (GET INPUT, digits only, SMS default alphabet, ME to echo text, packing SMS Point-to-point required by ME)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (GET INPUT, character set, SMS Default Alphabet, ME to echo text, ME supporting 8 bit data Message)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.3.

Expected Sequence 1.4 (GET INPUT, digits only, SMS default alphabet, ME to hide text, ME supporting 8 bit data Message)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.4.

Expected Sequence 1.5 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.5.

Expected Sequence 1.6 (GET INPUT, backwards move)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.6.

Expected Sequence 1.7 (GET INPUT, abort)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.7.

Expected Sequence 1.8 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.8.

Expected Sequence 1.9 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.9.

Expected Sequence 1.10 (GET INPUT, null length for the text string, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.10.

27.22.4.3.1.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.3.2.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

ME Manufacturers shall set the "no response from user" period of time as declared in table A.2/3.

The USIM 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.2.4.2, Expected Sequence 2.1.

27.22.4.3.2.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.3.3.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.3.4.2, Expected Sequence 3.1.

Expected Sequence 3.2 (GET INPUT, max length for the text string coding in UCS2 in Cyrillic, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.3.4.2, Expected Sequence 3.2.

27.22.4.3.3.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in ISO/IEC 10646 [17].

27.22.4.3.4.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.4.4.2, Expected Sequence 4.1.

Expected Sequence 4.2 (GET INPUT, character set from UCS2 alphabet in Cyrillic, Max length for the input, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.4.4.2, Expected Sequence 4.2.

27.22.4.3.4.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.23.

27.22.4.3.5.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.5.4.2, Expected Sequence 5.1.

Expected Sequence 5.2 (GET INPUT, default text for the input with max length, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.5.4.2, Expected Sequence 5.2.

27.22.4.3.5.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.5.4, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 12.31.

27.22.4.3.6.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.1A.

Expected Sequence 6.1B (GET INPUT, Basic icon, self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.1B.

Expected Sequence 6.2A (GET INPUT, Basic icon, non self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.2A.

Expected Sequence 6.2B (GET INPUT, Basic icon, non self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.2B.

Expected Sequence 6.3A (GET INPUT, Colour icon, self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.3A.

Expected Sequence 6.3B (GET INPUT, Colour icon, self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.3B.

Expected Sequence 6.4A (GET INPUT, Colour icon, non self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.4A.

Expected Sequence 6.4B (GET INPUT, Colour icon, non self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.4B.

27.22.4.3.6.5 Test Requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

27.22.4.3.7.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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, ME to echo text, ME supporting 8 bit data Message, help information available)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.7.4.2, Expected Sequence 7.1.

27.22.4.3.7.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.1.4.2, Expected Sequence 8.1.

27.22.4.3.8.1.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.2.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.2.4.2, Expected Sequence 8.2.

27.22.4.3.8.2.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.3.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.3.4.2, Expected Sequence 8.3.

27.22.4.3.8.3.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.4.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.4.4.2, Expected Sequence 8.4.

27.22.4.3.8.4.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.5.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.5.4.2, Expected Sequence 8.5.

27.22.4.3.8.5.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.6.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.6.4.2, Expected Sequence 8.6.

27.22.4.3.8.6.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.7.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.7.4.2, Expected Sequence 8.7.

27.22.4.3.8.7.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.8.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.8.4.2, Expected Sequence 8.8.

27.22.4.3.8.8.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.9.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.9.4.2, Expected Sequence 8.9.

27.22.4.3.8.9.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.10.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.10.4.2, Expected Sequence 8.10.

27.22.4.3.8.10.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese character, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.3.9.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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 - Chinese characters, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.9.4.2, Expected Sequence 9.1.

Expected Sequence 9.2 (GET INPUT, max length for the text string coding in UCS2 - Chinese characters, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.9.4.2, Expected Sequence 9.2.

27.22.4.3.9.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese character, as defined in ISO/IEC 10646 [17].

27.22.4.3.10.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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 - Chinese characters, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.10.4.2, Expected Sequence 10.1.

Expected Sequence 10.2 (GET INPUT, character set from UCS2 alphabet - Chinese characters, Max length for the input, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.10.4.2, Expected Sequence 10.2.

27.22.4.3.10.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.3.11.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.11.4.2, Expected Sequence 11.1.

Expected Sequence 11.2 (GET INPUT, max length for the text string coding in UCS2 in Katakana, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.11.4.2, Expected Sequence 11.2.

27.22.4.3.11.5 Test requirement

The ME 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 ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese character, as defined in ISO/IEC 10646 [17].

27.22.4.3.12.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.12.4.2, Expected Sequence 12.1.

Expected Sequence 12.2 (GET INPUT, character set from UCS2 alphabet in Katakana, Max length for the input, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.3.12.4.2, Expected Sequence 12.2.

27.22.4.3.12.5 Test requirement

The ME 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 ME shall support the MORE TIME command as defined in:

- TS 31.111 [15] clause 6.4.4, clause 6.6.4, clause 5.2, clause 8.6 and clause 8.7.

27.22.4.4.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (OK) to the UICC after the ME receives the MORE TIME proactive UICC command.

27.22.4.4.4 Method of test

27.22.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.4.4.2 Procedure

Expected Sequence 1.1 (MORE TIME)

See ETSI TS 102 384 [26] in subclause 27.22.4.4.4.2, Expected Sequence 1.1.

27.22.4.4.5 Test requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

27.22.4.5.1.3 Test purpose

To verify that the ME 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 ME 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 ME 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 ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as Toolkit default.

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

The ME 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 → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.1	
4	ME → USER	Display "Dial Tone" Play a standard supervisory dial tone through the external ringer for a duration of 5 s	
5	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.1	[Command performed successfully]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.2	
10	ME → USER	Display "Sub. Busy" Play a standard supervisory called subscriber busy tone for a duration of 5 s	
11	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.2	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.3	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.3	
16	ME → USER	Display "Congestion" Play a standard supervisory congestion tone for a duration of 5 s	
17	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.3	[Command performed successfully]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.4	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.4	
22	ME → USER	Display "RP Ack" Play a standard supervisory radio path acknowledgement tone	
23	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.4	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	
25	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.5	
26	ME → UICC	FETCH	
27	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.5	
28	ME → USER	Display "No RP" Play a standard supervisory radio path not available / call dropped tone for a duration of 5 s	
29	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.5	[Command performed successfully]

Step	Direction	MESSAGE / Action	Comments
30	UICC → ME	PROACTIVE UICC SESSION ENDED	
31	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.6	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.6	
34	ME → USER	Display "Spec Info" Play a standard supervisory error / special information tone for a duration of 5 s	
35	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.6	[Command performed successfully]
36	UICC → ME	PROACTIVE UICC SESSION ENDED	
37	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.7	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.7	
40	ME → USER	Display "Call Wait" Play a standard supervisory call waiting tone for a duration of 5 s	
41	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.7	[Command performed successfully]
42	UICC → ME	PROACTIVE UICC SESSION ENDED	
43	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.8	
44	ME → UICC	FETCH	
45	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.8	
46	ME → USER	Display "Ring Tone" Play a standard supervisory ringing tone for duration of 5 s	
47	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.8	[Command performed successfully]
48	UICC → ME	PROACTIVE UICC SESSION ENDED	
49	USER → ME	Set up a voice call	[User dials 123456789 to connect to the network manually]
50	ME → USS	Establish voice call	[Voice call is established]
51	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.1	
52	ME → UICC	FETCH	
53	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.1	
54	ME → USER	Display "Dial Tone" Superimpose the standard supervisory dial tone on the audio downlink for the duration of 5 s	
55	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.1	[Command performed successfully]
56	UICC → ME	PROACTIVE UICC SESSION ENDED	
57	USER → ME	The user ends the call	
58	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.9	
59	ME → UICC	FETCH	
60	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.9	

Step	Direction	MESSAGE / Action	Comments
61	ME → 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	
62	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.9a or TERMINAL RESPONSE: PLAY TONE 1.1.9b	[Command performed successfully] or [Command beyond ME's capabilities]
63	UICC → ME	PROACTIVE UICC SESSION ENDED	
64	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.10	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.10	
67	ME → USER	Display "Beep" Play a ME proprietary general beep	
68	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.10a Or TERMINAL RESPONSE: PLAY TONE 1.1.10b	[Command performed successfully] or [Command beyond ME's capabilities]
69	UICC → ME	PROACTIVE UICC SESSION ENDED	
70	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.11	
71	ME → UICC	FETCH	
72	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.11	
73	ME → USER	Display "Positive" Play a ME proprietary positive acknowledgement tone	
74	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.11a or TERMINAL RESPONSE: PLAY TONE 1.1.11b	[Command performed successfully] or [Command beyond ME's capabilities]
75	UICC → ME	PROACTIVE UICC SESSION ENDED	
76	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.12	
77	ME → UICC	FETCH	
78	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.12	
79	ME → USER	Display "Negative" Play a ME proprietary negative acknowledgement tone	
80	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.12a or TERMINAL RESPONSE: PLAY TONE 1.1.12b	[Command performed successfully] or [Command beyond ME's capabilities]
81	UICC → ME	PROACTIVE UICC SESSION ENDED	
82	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.13	
83	ME → UICC	FETCH	
84	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.13	

Step	Direction	MESSAGE / Action	Comments
85	ME → USER	Display "Quick" Play a ME proprietary general beep	
86	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.13a or TERMINAL RESPONSE: PLAY TONE 1.1.13b	[Command performed successfully] or [Command beyond ME's capabilities]
87	UICC → ME	PROACTIVE UICC SESSION ENDED	
88	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.14	
89	ME → UICC	FETCH	
90	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.14	
91	ME → USER	Display "<ABORT>" Play an ME Error / Special information tone until user aborts this command (the command shall be aborted by the user within 1 minute)	
92	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.14	[Proactive UICC session terminated by the user]
93	UICC → ME	PROACTIVE UICC SESSION ENDED	
94	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.15	
95	ME → UICC	FETCH	
96	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.15	[No alpha identifier, no tone tag, no duration tag]
97	ME → User	ME plays general beep, or if not supported any (defined by ME-manufacturer) other supported tone	[ME uses default duration defined by ME-manufacturer]
98	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.1.15	[Command performed successfully], [ME uses general beep, or if not supported any (defined by ME-manufacturer) other supported tone, uses default duration defined by ME-manufacturer]
99	UICC → ME	PROACTIVE UICC SESSION ENDED	

For coding, see ETSI TS 102 384 [26] in subclause 27.22.4.5.1.4.2, Expected Sequence 1.1.

27.22.4.5.1.5 Test requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in ISO/IEC 10646 [17].

27.22.4.5.2.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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 Russian, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.2.4.2, Expected Sequence 2.1.

27.22.4.5.2.5 Test requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8 and clause 8.31.

27.22.4.5.3.3 Test purpose

To verify that the ME 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 ME plays the requested audio tone through the earpiece.

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.1A.

Expected Sequence 3.1B (PLAY TONE, Basic icon, self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.1B.

Expected Sequence 3.2A (PLAY TONE, Basic icon, non self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.2A.

Expected Sequence 3.2B (PLAY TONE, Basic icon, non self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.2B.

Expected Sequence 3.3A (PLAY TONE, Colour icon, self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.3A.

Expected Sequence 3.3B (PLAY TONE, Colour icon, self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.3B.

Expected Sequence 3.4A (PLAY TONE, Colour icon, non self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.4A.

Expected Sequence 3.4B (PLAY TONE, Colour icon, non self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.4B.

27.22.4.5.3.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.1.4.2, Expected Sequence 4.1.

27.22.4.5.4.1.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.2.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.2.4.2, Expected Sequence 4.2.

27.22.4.5.4.2.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.3.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.3.4.2, Expected Sequence 4.3.

27.22.4.5.4.3.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.4.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.4.4.2, Expected Sequence 4.4.

27.22.4.5.4.4.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.5.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.5.4.2, Expected Sequence 4.5.

27.22.4.5.4.5.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.6.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.6.4.2, Expected Sequence 4.6.

27.22.4.5.4.6.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.7.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.7.4.2, Expected Sequence 4.7.

27.22.4.5.4.7.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.8.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.8.4.2, Expected Sequence 4.8.

27.22.4.5.4.8.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.9.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.9.4.2, Expected Sequence 4.9.

27.22.4.5.4.9.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.10.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.10.4.2, Expected Sequence 4.10.

27.22.4.5.4.10.5 Test Requirement

The ME 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in ISO/IEC 10646 [17].

27.22.4.5.5.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.5.4.2, Expected Sequence 5.1.

27.22.4.5.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 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 ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in ISO/IEC 10646 [17].

27.22.4.5.6.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.5.6.4.2, Expected Sequence 6.1.

27.22.4.5.6.5 Test requirement

The ME 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 ME shall support the POLL INTERVAL command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.6, clause 6.6.6, clause 5.2, clause 8.6, clause 8.7 and clause 8.8.

27.22.4.6.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (OK) to the UICC after the ME receives the POLL INTERVAL proactive UICC command.

To verify that the ME gives a valid response to the polling interval requested by the UICC.

To verify that the ME 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 ME is connected to the USIM Simulator.

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

27.22.4.6.4.2 Procedure

See ETSI TS 102 384 [26] in subclause 27.22.4.6.4.2, Expected Sequence 1.1.

> Note: If the requested poll interval is not supported by the ME, the ME is allowed to use a different one as stated in TS 31.111 [15], subclause 6.4.6.

27.22.4.6.5 Test requirement

The ME 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 ME shall support the REFRESH command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.7, clause 6.6.13, clause 5.2, clause 8.6, clause 8.7 and clause 8.18.

Consequently the ME shall support the USIM Initialization procedure as defined in:

- TS 31.102 [14] clause 5.1.1.2 and ETSI TS 102 221[13] clause 11.1.2

27.22.4.7.1.3 Test purpose

To verify that the ME performs the Proactive Command – REFRESH in accordance with the Command Qualifier. This shall require the ME to perform:

- the UICC and USIM initialization,
- a re-read of the contents and structure of the EFs on the UICC that have been notified as changed and are either part of initialization or used during the test,
- a restart of the card session,
- a successfull return of 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 ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table..

The elementary files are coded as Toolkit default except for expected sequence 1.3.

For expected sequence 1.3 the global phonebook shall be present.

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

These values might be overwritten with values defined in the expected sequences itself.

Prior to the execution of expected sequence 1.2 the FDN service shall be enabled.

27.22.4.7.1.4.2 Procedure

Expected Sequence 1.1 (REFRESH, USIM Initialization)

Step	Direction	MESSAGE / Action	Comments
1	UICC→ ME	PROACTIVE COMMAND PENDING: REFRESH 1.1.1	[To inform the ME that FDN becomes enabled]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 1.1.1	
4	UICC	EF EST contents states FDN enabled	[New EF EST value: 01]
5	ME → UICC	USIM Initialization including send STATUS[P1='01']	[ME performs USIM initialization in accordance with TS 31.111 [15] clause 6.4.7]
6	ME → UICC	TERMINAL RESPONSE: REFRESH 1.1.1A Or TERMINAL RESPONSE: REFRESH 1.1.1B	[normal ending] [additional EFs read]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	
8	USER → ME	Call setup to "321"	
9	ME → USER	Call set up not allowed	
10	USER → ME	Call setup to "123"	
11	ME → USS	Setup	Called party BCD number shall be "123"

PROACTIVE COMMAND: REFRESH 1.1.1

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: USIM Initialization
Device identities
    Source device: UICC
    Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	01	03	82	02	81	82	

TERMINAL RESPONSE: REFRESH 1.1.1A

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: USIM Initialization
Device identities
Source device: ME
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 1.1.1B

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: USIM Initialization
Device identities
Source device: ME
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 1.2 (REFRESH, File Change Notification)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 1.2.1	[To inform the ME that EF FDN will be in an updated state, FDN service already enabled]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 1.2.1	
4	UICC	Update EF FDN RECORD 1	[EF FDN record 1 updated to contain the dialling string "0123456789"]
5	ME → UICC	TERMINAL RESPONSE: REFRESH 1.2.1A Or TERMINAL RESPONSE: REFRESH 1.2.1B	[normal ending] [additional EFs read]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	USER → ME	Call setup to "123"	
8	ME → USER	Call set up not allowed	
9	USER → ME	Call setup to "0123456789"	
10	ME → USS	Setup	Called party BCD number shall be "0123456789"

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: ME
File List: EF FDN

Coding:

BER-TLV:	D0	12	81	03	01	01	01	82	02	81	82	92
	07	01	3F	00	7F	FF	6F	3B				

TERMINAL RESPONSE: REFRESH 1.2.1A

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: File Change Notification
Device identities
Source device: ME
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: ME
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, USIM Initialization and File Change Notification)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 1.3.1	
4	UICC	Update EF ADN in the global phonebook	[EF ADN entry 1 of the global phonebook to contain the the new and previously unused alpha identifier "Changed"
5	ME → UICC	USIM Initialization including sending STATUS [P1='01']	[ME performs USIM initialization in accordance with TS 31.111 [15] clause 6.4.7]
6	ME → UICC	TERMINAL RESPONSE: REFRESH 1.3.1A Or TERMINAL RESPONSE: REFRESH 1.3.1B	[normal ending] [additional EFs read]
7	UICC → ME	PROACTIVE UICC SESSION ENDED	
8	USER → ME	Use an MMI dependent procedure to display the entry with the alpha identifier "Changed" stored in record 1 of EF ADN in the global phonebook	[To ensure that EF ADN in the global phonebook has been read after issuing the Refresh command]
9	ME → USER	The ME shall display the alpha identifier "Changed" for record 1 of EF ADN in the global phonebook	

PROACTIVE COMMAND: REFRESH 1.3.1

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: USIM Initialization and File Change Notification
Device identities
    Source device: UICC
    Destination device: ME
    File List: ADN in the global phonebook

Coding:

BER-TLV:	D0	12	81	03	01	01	02	82	02	81	82	92
	Note 1											

Note 1: Length and data of the file list TLV depend on the card configuration used in this test. The global phonebook shall be used. The number of changed files shall be set to '01'.

TERMINAL RESPONSE: REFRESH 1.3.1A

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: USIM Initialization and File Change Notification
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: REFRESH 1.3.1B

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: USIM Initialization and File Change Notification
Device identities
Source device: ME
Destination device: UICC
Result
General Result: REFRESH performed with additional EFs read

Coding:

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

Expected Sequence 1.4 (REFRESH, USIM Initialization and Full File Change Notification)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 1.4.1	
4	UICC	EF EST contents states FDN enabled	[New EF EST value: 01]
5	UICC	Update EF FDN	[EF FDN record 1 updated to contain the dialling string "0123456789"]
6	ME → UICC	USIM Initialization including send STATUS[P1='01']	[ME performs USIM initialization in accordance with TS 31.111 [15] clause 6.4.7]
7	ME → UICC	TERMINAL RESPONSE: REFRESH 1.4.1A Or TERMINAL RESPONSE: REFRESH 1.4.1B	[normal ending] [additional EFs read]
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	Call setup to "321"	
10	ME → USER	Call set up not allowed	
11	USER → ME	Call setup to "0123456789"	
12	ME → USS	Setup	Called party BCD number shall be "0123456789"

PROACTIVE COMMAND: REFRESH 1.4.1

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: USIM Initialization and Full File Change Notification
Device identities
Source device: UICC
Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	01	00	82	02	81	82

TERMINAL RESPONSE: REFRESH 1.4.1A

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: USIM Initialization and Full file Change Notification
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: REFRESH 1.4.1B

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: USIM Initialization and full File change Notification
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: REFRESH performed with additional EFs read

Coding:

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

Expected Sequence 1.5 (REFRESH, UICC Reset)

Step	Direction	MESSAGE / Action	Comments
1	UICC→ ME	PROACTIVE COMMAND PENDING: REFRESH 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 1.5.1	
4	ME → UICC	STATUS[P1='02']	ME indicates to USIM that the termination procedure is starting
5	ME → UICC	ME resets the UICC, performs USIM initialisation, including send STATUS[P1='01'] and no TERMINAL RESPONSE shall be sent	

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: ME

Coding:

BER-TLV:	D0	09	81	03	01	01	04	82	02	81	82	

Expected Sequence 1.6 (REFRESH, USIM Initialization after SMS-PP data download)

Step	Direction	MESSAGE / Action	Comments
1	ME	The ME shall be in its normal idle mode	[Start a sequence to verify that the ME returns the RP-ACK message back to the USS, if the UICC responds with '90 00']
2	USS → ME	SMS-PP Data Download Message 1.6.1	
3	ME → USER	The ME shall not display the message or alert the user of a short message waiting	
4	ME → UICC	ENVELOPE: SMS-PP DOWNLOAD 1.6.1	
5	UICC → ME	SW1/SW2 of '90 00'	
6	ME → USS	RP-ACK	
7	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 1.1.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: REFRESH 1.1.1	
10	UICC	EF EST contents states FDN enabled	[New EF EST value: 01]
11	ME → UICC	USIM Initialization including send STATUS[P1='01']	[ME performs USIM initialization in accordance with TS 31.111 [15] clause 6.4.7]
12	ME → UICC	TERMINAL RESPONSE: REFRESH 1.1.1A Or TERMINAL RESPONSE: REFRESH 1.1.1B	[normal ending] [additional EFs read]
13	UICC → ME	PROACTIVE UICC SESSION ENDED	
14	USER → ME	Call setup to "321"	
15	ME → USER	Call set up not allowed	
16	USER → ME	Call setup to "123"	
17	ME → USS	Setup	Called party BCD number shall be "123"

SMS-PP (Data Download) Message 1.6.1

Logically:

SMS TPDU
TP-MTI SMS-DELIVER
TP-MMS No more messages waiting for the MS in this SC
TP-RP TP-Reply-Path is not set in this SMS-DELIVER
TP-UDHI TP-UD field contains only the short message
TP-SRI A status report will not be returned to the SME
TP-OA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "1234"
TP-PID (U)SIM Data download
TP-DCS
Coding Group General Data Coding
Compression Text is uncompressed

Message Class	Class 2 (U)SIM Specific Message
Alphabet	8 bit data
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	13
TP-UD	"Short Message"

Coding:

Coding	04	04	91	21	43	7F	16	89	10	10	00	00
	00	00	0D	53	68	6F	72	74	20	4D	65	73
	73	61	67	65								

ENVELOPE: SMS-PP DOWNLOAD 1.6.1

Logically:

SMS-PP Download

Device identities	
Source device:	Network
Destination device:	UICC
Address	
TON	International number
NPI	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"
SMS TPDU	
TP-MTI	SMS-DELIVER
TP-MMS	No more messages waiting for the MS in this SC
TP-RP	TP-Reply-Path is not set in this SMS-DELIVER
TP-UDHI	TP-UD field contains only the short message
TP-SRI	A status report will not be returned to the SME
TP-OA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"1234"
TP-PID	(U)SIM Data download
TP-DCS	
Coding Group	General Data Coding
Compression	Text is uncompressed
Message Class	Class 2 (U)SIM Specific Message
Alphabet	8 bit data
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	13
TP-UD	"Short Message"

Coding:

BER-TLV:	D1	2D	82	02	83	81	06	09	91	11	22	33
	44	55	66	77	F8	8B	1C	04	04	91	21	43
	7F	16	89	10	10	00	00	00	00	0D	53	68
	6F	72	74	20	4D	65	73	73	61	67	65	

Expected Sequence 1.7 (REFRESH, USIM Application Reset)

Step	Direction	MESSAGE / Action	Comments
1	UICC→ ME	PROACTIVE COMMAND PENDING: REFRESH 1.7.1	[To inform the ME that FDN becomes enabled]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 1.7.1	No UICC reset shall be performed between steps 3 and 9.
4	ME → UICC	STATUS[P1='02']	ME indicates to USIM that the termination procedure is starting
5	ME → UICC	Select AID=USIM (P2='44') OR (P2='4C')	Application termination
6	UICC	EF EST contents states FDN enabled	[New EF EST value: 01]
7	ME → UICC	USIM Initialization, including send STATUS[P1='01']	[ME performs USIM initialization]
8	ME → UICC	TERMINAL RESPONSE: REFRESH 1.7.1	[normal ending]
9	UICC → ME	PROACTIVE UICC SESSION ENDED	
10	USER → ME	Call setup to "321"	
11	ME → USER	Call set up not allowed	
12	USER → ME	Call setup to "123"	
13	ME → USS	Setup	Called party BCD number shall be "123"
14	USS → ME	The ME receives the CONNECT message from the USS.	
15	USER → ME	The user ends the call after a few seconds.	

PROACTIVE COMMAND: REFRESH 1.7.1

Logically:

Command details
- Command number: 1
- Command type: REFRESH
- Command qualifier: USIM Application Reset

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

Coding:

BER-TLV:	D0	09	81	03	01	01	05	82	02	81	82	

TERMINAL RESPONSE: REFRESH 1.7.1

Logically:

Command details
- Command number: 1
- Command type: REFRESH
- Command qualifier: USIM Application Reset

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	05	82	02	82	81	83	01	00

27.22.4.7.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.7.

27.22.4.7.2 REFRESH (IMSI changing procedure)

27.22.4.7.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.7.2.2 Conformance requirement

The ME shall support the REFRESH command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.7, clause 6.4.7.1, clause 6, clause 6.6.13, clause 5.2, clause 8.6, clause 8.7 and clause 8.18.

Additionally the ME shall support the USIM Initialization and USIM application closure procedure as defined in:

- TS 31.102 [14] clause 5.1.2 and Annex I.

27.22.4.7.2.3 Test purpose

To verify that the ME performs the Proactive Command – REFRESH in accordance with the Command Qualifier and the IMSI changing procedure. This may require the ME to perform:

- the USIM initialization
- a re-read of the contents and structure of the IMSI on the USIM
- a restart of the card session
- a successful return of the result of the execution of the command in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.7.2.4 Method of test

27.22.4.7.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table..

The elementary files are coded as USIM Application Toolkit default.

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

The ATT flag broadcast in the SYSTEM INFORMATION BLOCK TYPE 1 on the BCCH is set to "UEs shall apply IMSI attach and detach procedure" for Expected Sequences 2.2.

27.22.4.7.2.4.2 Procedure

Expected Sequence 2.1 (REFRESH, UICC Reset for IMSI Changing procedure)

TBD

Expected Sequence 2.2 (REFRESH, USIM Application Reset for IMSI Changing procedure)

Step	Direction	MESSAGE / Action	Comments
1	UICC→ ME	PROACTIVE COMMAND PENDING: REFRESH 2.2.1	[To inform the ME that IMSI has changed]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 2.2.1	
4	ME → UICC	STATUS[P1='02']	ME indicates to USIM that the termination procedure is starting
5	ME → UICC		Application termination
6	ME→USS	IMSI DETACH INDICATION and/or DETACH REQUEST	Indicates IMSI detach and/or GPRS detach, depending on if the ME is CS and/or PS registered according to its capabilities
7	UICC	Update EF IMSI and EF LOCI	[Update the content of EF IMSI to "001010123456786", Temporary Mobile Subscriber Identity (TMSI) in EF LOCI be set to "FF FF FF FF"]
8	ME → UICC	SELECT AID=USIM (P2='0x')	Application selection
9	ME → UICC	USIM Initialization, including send STATUS[P1='01']	[ME performs USIM initialization]
10	ME → UICC	TERMINAL RESPONSE: REFRESH 2.2.1	[normal ending]
11	UICC → ME	PROACTIVE UICC SESSION ENDED	
12	ME → USS	LOCATION UPDATING REQUEST and/or ATTACH REQUEST	The ME will again register in CS and/or PS depending on its capabilities
13	USS → ME	LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT	
14	ME → USS	TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE	

PROACTIVE COMMAND: REFRESH 2.2.1

Logically:

Command details
- Command number: 1
- Command type: REFRESH
- Command qualifier: USIM Application Reset

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

Coding:

BER-TLV:	D0	09	81	03	01	01	05	82	02	81	82

TERMINAL RESPONSE: REFRESH 2.2.1

Logically:

Command details
- Command number: 1
- Command type: REFRESH
- Command qualifier: USIM Application Reset

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	05	82	02	82	81	83	01	00

Expected Sequence 2.3 (REFRESH, 3G Session Reset for IMSI Changing procedure)

TBD

Expected Sequence 2.4 (REFRESH, reject 3G Session Reset for IMSI Changing procedure during call)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	MO Call setup	
2	ME → USS	Call established and maintained	
3	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 2.4.1	
4	ME → UICC	FETCH	
5	UICC → ME	PROACTIVE COMMAND: REFRESH 2.4.1	
6	ME → UICC	TERMINAL RESPONSE: REFRESH 2.4.1A Or TERMINAL RESPONSE: REFRESH 2.4.1B	ME rejects REFRESH proactive command
7	UICC → ME	PROACTIVE UICC SESSION ENDED	Note: EF IMSI and EF LOCI are not updated by the UICC, see TS 31.111[15], cl. 6.4.7.1
8	USER → ME	The MO call is terminated	

PROACTIVE COMMAND: REFRESH 2.4.1

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: 3G Session Reset
Device identities
    Source device: UICC
    Destination device: ME
File list
    Number of files: 2
    File: EF IMSI
    File: EF LOCI

Coding:

BER-TLV:	D0	18	81	03	01	01	06	82	02	81	82	92
	0D	02	3F	00	7F	FF	6F	07	3F	00	7F	FF
	6F	7E										

TERMINAL RESPONSE: REFRESH 2.4.1A

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: 3G Session Reset
Device identities
    Source device: ME

Destination device: UICC
Result
General Result: ME currently unable to process command
Additional information on result: ME currently busy on call

Coding:

BER-TLV:	81	03	01	01	06	82	02	82	81	83	02	20
	02											

TERMINAL RESPONSE: REFRESH 2.4.1B

Logically:

Command details
Command number: 1
Command type: REFRESH
Command qualifier: 3G Session Reset
Device identities
Source device: ME
Destination device: UICC
Result
General Result: ME currently unable to process command
Additional information on result: Screen is busy

Coding:

BER-TLV:	81	03	01	01	06	82	02	82	81	83	02	20
	01											

27.22.4.7.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.3.

27.22.4.7.3 REFRESH (Steering of roaming)

27.22.4.7.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.7.3.2 Conformance requirement

The ME shall support the REFRESH command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.7, clause 6.6.13, clause 5.2, clause 8.2, 8.6, clause 8.7 and clause 8.90.

Consequently the Rel-7 or later ME shall support the steering of roaming procedure as defined in:

- TS 23.122 [29] clause 4.4.6.

27.22.4.7.3.3 Test purpose

To verify that the ME performs the Proactive Command – REFRESH in accordance with the Command Qualifier. This shall require the ME to perform:

- the steering of roaming procedure,

- a successfull return of the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

27.22.4.7.3.4 Method of test

27.22.4.7.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and connected to the USS/SS.

The elementary files are coded as Toolkit default with the following exception:

27.22.4.7.4 EF$_{\text{FPLMN}}$

Logically:
PLMN1: 254 002 (MCC MNC)
PLMN2: 254 003
PLMN3: 254 004
PLMN4: 234 004
PLMN5: 234 005
PLMN6: 234 006

Coding:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Hex	52	24	00	52	34	00	52	44	00	32	44	00
	B13	B14	B15	B16	B17	B18						
	32	54	00	32	64	00						

EF$_{\text{OPLMNwACT}}$

Logically:
1st PLMN: 254 001 (MCC MNC)
1st ACT: UTRAN
2nd PLMN: 254 001
2nd ACT: GSM
3rd PLMN: 274 002
3rd ACT: UTRAN
4th PLMN: 274 003
4th ACT: UTRAN
5th PLMN: 274 004
5th ACT: UTRAN
6th PLMN: 274 005
6th ACT: UTRAN
7th PLMN: 274 006
7th ACT: UTRAN
8th PLMN: 274 007
8th ACT: UTRAN

Coding:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Hex	52	14	00	80	00	52	14	00	00	80
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	72	24	00	80	00	72	34	00	80	00
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	72	44	00	80	00	72	54	00	80	00
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	72	64	00	80	00	72	74	00	80	00

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

27.22.4.7.3.4.2 Procedure

Expected Sequence 3.1 (REFRESH, Steering of roaming, UTRAN)

Step	Direction	MESSAGE / Action	Comments
1	USS	The first UMTS USS transmits on BCCH, with the following network parameters: - Attach/detach: disabled. - LAI (MCC/MNC/LAC): 254/001/0001. - Access control: unrestricted. The second UMTS USS transmits on BCCH, with the following network parameters: - Attach/detach: disabled. - LAI (MCC/MNC/LAC): 254/002/0001. - Access control: unrestricted.	
2	ME → USS	The ME registers to the first USS.	
3	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 3.1.1	
4	ME → UICC	FETCH	
5	UICC → ME	PROACTIVE COMMAND: REFRESH 3.1.1	
6a	UICC	Update of EF OPLMNwACT	[First entry: PLMN= 254/003, ACT=UTRAN, second entry: PLMN 254/004, ACT=GERAN]
6b	ME → UICC	Update of EF FPLMN	[Deletion of the entries with PLMN 254/003 and PLMN 254/004]
6c	ME	Update of ME's internal memory	[Not explicitly verified: Deletion of the FPLMN entries with PLMN 254/003 and PLMN 254/004]
7	ME → USS	The ME does not register to another USS than the currently selected.	
8	ME → UICC	TERMINAL RESPONSE: REFRESH 3.1.1	[Unable to process command]
9	UICC → ME	PROACTIVE UICC SESSION ENDED	
10		Wait approx. 60 seconds	[The ME does not register to another USS than the currently selected.]
11	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 3.1.2	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND: REFRESH 3.1.2	
14a	UICC	Update of EF OPLMNwACT	[First entry: PLMN= 254/002, ACT=UTRAN,GERAN, second entry: PLMN 254/001, ACT=UTRAN,GERAN]
14b	ME → UICC	Update of EF FPLMN	[Deletion of the entry with PLMN 254/002]
14c	ME	Update of ME's internal memory	[Not explicitly verified: Deletion of the FPLMN entry with PLMN 254/002]
15	ME → USS	The ME registers to the second USS.	
16	ME → UICC	TERMINAL RESPONSE: REFRESH 3.1.2	[normal ending]
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 3.1.3	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: REFRESH 3.1.3	
21a	UICC	Update of EF OPLMNwACT	[First entry: PLMN= 254/003, ACT=UTRAN,GERAN, second entry: PLMN 254/001, ACT=UTRAN,GERAN]
21b	UICC	EF FPLMN	[PLMN entries 254/003 and PLMN 254/001 not existent in EF FPLMN]
21c	ME	ME's internal memory	[Not explicitly verified: PLMN entries 254/003 and PLMN 254/001 not existent in FPLMN list]
22	ME → USS	The ME registers to the first USS.	
23	ME → UICC	TERMINAL RESPONSE: REFRESH 3.1.2	[normal ending]

24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: REFRESH 3.1.1

Logically:

Command details
- Command number: 1
- Command type: REFRESH
- Command qualifier: Steering of roaming

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

PLMNwACT List
- 1stPLMN: 254/003
- 1stACT: UTRAN
- 2stPLMN: 254/004
- 2stACT: GERAN

Coding:

BER-TLV:	D0	15	81	03	01	01	07	82	02	81	82	72
	0A	52	34	00	80	00	52	44	00	00	80	

TERMINAL RESPONSE: REFRESH 3.1.1

Logically:

Command details
- Command number: 1
- Command type: REFRESH
- Command qualifier: Steering of roaming

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

Result
- General Result: ME unable to process command

Coding:

BER-TLV:	81	03	01	01	07	82	02	82	81	83	01	20

PROACTIVE COMMAND: REFRESH 3.1.2

Logically:

Command details
- Command number: 1
- Command type: REFRESH
- Command qualifier: Steering of roaming

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

PLMNwACT List
- 1stPLMN: 254/002

  - 1stACT: UTRAN/GERAN
  - 2stPLMN: 254/001
  - 2stACT: UTRAN/GERAN

Coding:

BER-TLV:	D0	15	81	03	01	01	07	82	02	81	82	72
	0A	52	24	00	80	80	52	14	00	80	80	

TERMINAL RESPONSE: REFRESH 3.1.2

Logically:

- Command details
  - Command number: 1
  - Command type: REFRESH
  - Command qualifier: Steering of roaming
- Device identities
  - Source device: ME
  - Destination device: UICC
- Result
  - General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	07	82	02	82	81	83	01	00

PROACTIVE COMMAND: REFRESH 3.1.3

Logically:

- Command details
  - Command number: 1
  - Command type: REFRESH
  - Command qualifier: Steering of roaming
- Device identities
  - Source device: UICC
  - Destination device: ME
- PLMNwACT List
  - 1stPLMN: 254/003
  - 1stACT: UTRAN/GERAN
  - 2stPLMN: 254/001
  - 2stACT: UTRAN/GERAN

Coding:

BER-TLV:	D0	15	81	03	01	01	07	82	02	81	82	72
	0A	52	34	00	80	80	52	14	00	80	80	

Expected Sequence 3.2 (REFRESH, Steering of roaming, InterRAT)

Step	Direction	MESSAGE / Action	Comments
1	USS	The UMTS USS transmits on BCCH, with the following network parameters: - Attach/detach: disabled. - LAI (MCC/MNC/LAC): 254/001/0001. - Access control: unrestricted. The GSM SS transmits on BCCH, with the following network parameters: - Attach/detach: disabled. - LAI (MCC/MNC/LAC): 254/002/0001. - Access control: unrestricted.	
2	ME → USS	The ME registers to the UMTS USS and achieves updated idle mode.	
3	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 3.2.1	
4	ME → UICC	FETCH	
5	UICC → ME	PROACTIVE COMMAND: REFRESH 3.2.1	
6a	UICC	Update of EF OPLMNwACT	[First entry: PLMN= 254/002, ACT= GERAN, second entry: PLMN 254/001, ACT=UTRAN]
6b	ME → UICC	Update of EF FPLMN	[Deletion of the entry with PLMN 254/002]
6c	ME	Update of ME's internal memory	[Not explicitly verified: Deletion of the FPLMN entry with PLMN 254/002]
7	ME → USS	The ME registers to the GSM SS and is in updated idle mode.	
8	ME → UICC	TERMINAL RESPONSE: REFRESH 3.1.2	[normal ending]
9	UICC → ME	PROACTIVE UICC SESSION ENDED	
10	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 3.2.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: REFRESH 3.2.2	
13a	UICC	Update of EF OPLMNwACT	[First entry: PLMN= 254/001, ACT= UTRAN, second entry: PLMN 254/002, ACT=GERAN]
13b	UICC	Update of EF FPLMN	[Entries with PLMN 254/002 and PLMN 254/001 not existen in EF FPLMNt]
13b	ME	Update of ME's internal memory	[Not explicitly verified: FPLMN entries with PLMN 254/002 and PLMN 254/001 not existent in FPLMN list]
14	ME → USS	The ME registers to the UMTS USS and is in updated idle mode.	
15	ME → UICC	TERMINAL RESPONSE: REFRESH 3.1.2	[normal ending]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: REFRESH 3.2.1

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: Steering of roaming
Device identities
    Source device: UICC
    Destination device: ME
PLMNwACT List
    1stPLMN: 254/002
    1stACT: GERAN
    2stPLMN: 254/001

2stACT: UTRAN

Coding:

BER-TLV:	D0	15	81	03	01	01	07	82	02	81	82	72
	0A	00	11	00	00	80	00	11	00	80	00	

PROACTIVE COMMAND: REFRESH 3.2.2

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: Steering of roaming
Device identities
    Source device: UICC
    Destination device: ME
PLMNwACT List
    1stPLMN: 254/003
    1stACT: GERAN
    2stPLMN: 254/001
    2stACT: UTRAN

Coding:

BER-TLV:	D0	15	81	03	01	01	07	82	02	81	82	72
	0A	00	31	00	00	80	00	11	00	80	00	

27.22.4.7.3.5 Test requirement

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

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 ME shall support the SET UP MENU command as defined in:

- TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4.

The ME shall support MENU SELECTION as defined in:

- TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.

27.22.4.8.1.3 Test purpose

To verify that the ME 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 ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (SET UP MENU, Large Menu with many items or with large items or with Large Alpha Identifier)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.1.4.2, Expected Sequence 1.2.

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 ME 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 31.111 [15] clause 8.21.

27.22.4.8.2.3 Test purpose

To verify that the ME 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 ME informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.2.4.2, Expected Sequence 2.1.

27.22.4.8.2.5 Test requirement

The ME 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 31.111 [15] clause 8.24.

27.22.4.8.3.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.3.4.2, Expected Sequence 3.1.

27.22.4.8.3.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clause 6.5.4, 8.31 and 8.32.

27.22.4.8.4.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.4.4.2, Expected Sequence 4.1A.

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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.4.4.2, Expected Sequence 4.1B.

Expected Sequence 4.2A (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.4.4.2, Expected Sequence 4.2A.

Expected Sequence 4.2B (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.4.4.2, Expected Sequence 4.2B.

27.22.4.8.4.5 Test requirement

The ME 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 ME 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 ME and the number of icon items does not exceed the number of soft keys available, then the ME displays those icons as soft key.

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.5.4.2, Expected Sequence 5.1.

27.22.4.8.5.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.1.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.1.4.2, Expected Sequence 6.1.

27.22.4.8.6.1.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.2.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.2.4.2, Expected Sequence 6.2.

27.22.4.8.6.2.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.3.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.3.4.2, Expected Sequence 6.3.

27.22.4.8.6.3.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.4.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.4.4.2, Expected Sequence 6.4.

27.22.4.8.6.4.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.5.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.5.4.2, Expected Sequence 6.5.

27.22.4.8.6.5.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.6.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.6.4.2, Expected Sequence 6.6.

27.22.4.8.6.6.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.7.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.7.4.2, Expected Sequence 6.7.

27.22.4.8.6.7.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.8.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.8.4.2, Expected Sequence 6.8.

27.22.4.8.6.8.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.9.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.9.4.2, Expected Sequence 6.9.

27.22.4.8.6.9.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.10.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.10.4.2, Expected Sequence 6.10.

27.22.4.8.6.10.5 Test requirement

The ME 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 ME shall support the SET UP MENU command as defined in:

- TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4.

The ME shall support MENU SELECTION as defined in:

- TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.
- Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in ISO/IEC 10646 [17].

27.22.4.8.7.3 Test purpose

To verify that the ME 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 ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.7.4.2, Expected Sequence 7.1.

27.22.4.8.7.5 Test requirement

The ME 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 ME shall support the SET UP MENU command as defined in:

- TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4

The ME shall support MENU SELECTION as defined in:

- TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.
- Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in ISO/IEC 10646 [17].

27.22.4.8.8.3 Test purpose

To verify that the ME 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 ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.8.4.2, Expected Sequence 8.1.

27.22.4.8.8.5 Test requirement

The ME 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 ME shall support the SET UP MENU command as defined in:

- TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4.

The ME shall support MENU SELECTION as defined in:

- TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.
- Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in ISO/IEC 10646 [17].

27.22.4.8.9.3 Test purpose

To verify that the ME 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 ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.8.9.4.2, Expected Sequence 9.1.

27.22.4.8.9.5 Test requirement

The ME 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 ME 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 ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.

27.22.4.9.1.3 Test purpose

To verify that the ME 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 ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (SELECT ITEM, large menu, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (SELECT ITEM, call options, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.3.

Expected Sequence 1.4 (SELECT ITEM, backward move by user, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.4.

Expected Sequence 1.5 (SELECT ITEM, "Y", successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.5.

Expected Sequence 1.6 (SELECT ITEM, Large menu, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.6.

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 ME 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 mobile supports next action indicator mode.

27.22.4.9.2.4 Method of test

27.22.4.9.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.2.4.2, Expected Sequence 2.1.

27.22.4.9.2.5 Test requirement

The ME 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 mobile supports "default item" mode.

27.22.4.9.3.4 Method of test

27.22.4.9.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.3.4.2, Expected Sequence 3.1.

27.22.4.9.3.5 Test requirement

The ME 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 mobile 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.4.4.2, Expected Sequence 4.1.

27.22.4.9.4.5 Test requirement

The ME 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 31.111 [15] clause 8.31 and clause 8.32.

27.22.4.9.5.3 Test purpose

To verify that the mobile 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.5.4.2, Expected Sequence 5.1A.

Expected Sequence 5.1B (SELECT ITEM, BASIC ICON NOT SELF EXPLANATORY, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.5.4.2, Expected Sequence 5.1B.

Expected Sequence 5.2A (SELECT ITEM, BASIC ICON SELF EXPLANATORY, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.5.4.2, Expected Sequence 5.2A.

Expected Sequence 5.2B (SELECT ITEM, BASIC ICON SELF EXPLANATORY, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.5.4.2, Expected Sequence 5.2B.

27.22.4.9.5.5 Test requirement

The ME 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 mobile 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.6.4.2, Expected Sequence 6.1.

Expected Sequence 6.2 (SELECT ITEM, PRESENTATION AS A CHOICE OF DATA VALUES, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.6.4.2, Expected Sequence 6.2.

27.22.4.9.6.5 Test requirement

The ME 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 mobile 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.7.4.2, Expected Sequence 7.1.

27.22.4.9.7.5 Test requirement

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME Manufacturer shall have defined the "no response from user" period of time as declared in table A.2/4.

The USIM 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.8.4.2, Expected Sequence 8.1.

27.22.4.9.8.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.1.4.2, Expected Sequence 9.1.

27.22.4.9.9.1.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.2.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.2.4.2, Expected Sequence 9.2.

27.22.4.9.9.2.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.3.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.3.4.2, Expected Sequence 9.3.

27.22.4.9.9.3.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.4.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.4.4.2, Expected Sequence 9.4.

27.22.4.9.9.4.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.5.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.5.4.2, Expected Sequence 9.5.

27.22.4.9.9.5.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.6.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.6.4.2, Expected Sequence 9.6.

27.22.4.9.9.6.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.7.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.7.4.2, Expected Sequence 9.7.

27.22.4.9.9.7.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.8.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.8.4.2, Expected Sequence 9.8.

27.22.4.9.9.8.5 Test requirement

The ME 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:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.9.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.9.4.2, Expected Sequence 9.9.

27.22.4.9.9.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.9.

27.22.4.9.9.10 SELECT ITEM (Support of Text Attribute – Foreground and Background Colour)

27.22.4.9.9.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.10.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.10.3 Test purpose

To verify that the ME displays text formatted according to the foreground and background colour text attribute configuration within the command Select Item.

27.22.4.9.9.10.4 Method of test

27.22.4.9.9.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.10.4.2, Expected Sequence 9.10.

27.22.4.9.9.10.5 Test requirement

The ME 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 ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.
- Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic characters, as defined in ISO/IEC 10646 [17].

27.22.4.9.10.3 Test purpose

To verify that the ME 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 ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.10.4.2, Expected Sequence 10.1.

Expected Sequence 10.2 (SELECT ITEM with UCS2 in Cyrillic characters, 0x81 UCS2 coding, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.10.4.2, Expected Sequence 10.2.

Expected Sequence 10.3 (SELECT ITEM with UCS2 in Cyrillic characters, 0x82 UCS2 coding, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.10.4.2, Expected Sequence 10.3.

27.22.4.9.10.5 Test requirement

The ME 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 ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.
- Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in ISO/IEC 10646 [17].

27.22.4.9.11.3 Test purpose

To verify that the ME 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 ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.11.4.2, Expected Sequence 11.1.

27.22.4.9.11.5 Test requirement

The ME 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 ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.
- Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in ISO/IEC 10646 [17].

27.22.4.9.12.3 Test purpose

To verify that the ME 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 ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.12.4.2, Expected Sequence 12.1.

Expected Sequence 12.2 (SELECT ITEM with UCS2 - Katakana characters, 0x81 UCS2 coding, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.12.4.2, Expected Sequence 12.2.

Expected Sequence 12.3 (SELECT ITEM with UCS2 - Katakana characters, 0x82 UCS2 coding, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.9.12.4.2, Expected Sequence 12.3.

27.22.4.9.12.5 Test requirement

The ME shall operate in the manner defined in expected sequences 12.1 to 12.3.

27.22.4.10 SEND SHORT MESSAGE

27.22.4.10.1 SEND SHORT MESSAGE (normal)

27.22.4.10.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.1.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

27.22.4.10.1.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.1.4 Method of test

27.22.4.10.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.1.4.2 Procedure

Expected Sequence 1.1(SEND SHORT MESSAGE, packing not required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	[packing not required, 8-bit data]
4	ME → USER	Display "Send SM"	[Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1

Logically:

Command details		
	Command number:	1
	Command type:	SEND SHORT MESSAGE
	Command qualifier:	packing not required
Device identities		
	Source device:	UICC
	Destination device:	Network
	Alpha identifier:	"Send SM"
Address		
	TON:	International number
	NPI:	"ISDN / telephone numbering plan"
	Dialling number string	"112233445566778"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	8-bit data
	Message class	class 0
	TP-UDL	12
	TP-UD	"Test Message"

Coding:

BER-TLV:	D0	37	81	03	01	13	00	82	02	81	83	85
	07	53	65	6E	64	20	53	4D	86	09	91	11
	22	33	44	55	66	77	F8	8B	18	01	00	09
	91	10	32	54	76	F8	40	F4	0C	54	65	73
	74	20	4D	65	73	73	61	67	65			

SMS-PP (SEND SHORT MESSAGE) Message 1.1

Logically:

SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"01"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	8-bit data
	Message class	class 0
	TP-UDL	12

TP-UD "Test Message"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing not required

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (SEND SHORT MESSAGE, packing required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.2.1	[packing required, 8-bit data]
4	ME → USER	Display "Send SM"	[Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.2	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.2.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.2.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing required

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "Send SM"

Address
- TON: International number
- NPI: "ISDN / telephone numbering plan"
- Dialling number string "112233445566778"

SMS TPDU
- TP-MTI SMS-SUBMIT
- TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
- TP-VPF TP-VP field not present

TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	7
TP-UD	"Send SM"

Coding:

BER-TLV:	D0	32	81	03	01	13	01	82	02	81	83	85
	07	53	65	6E	64	20	53	4D	86	09	91	11
	22	33	44	55	66	77	F8	8B	13	01	00	09
	91	10	32	54	76	F8	40	F4	07	53	65	6E
	64	20	53	4D								

SMS-PP (SEND SHORT MESSAGE) Message 1.2

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	7
TP-UD	"Send SM"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	F0	07
	D3	B2	9B	0C	9A	36	01					

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.2.1

Logically:

Command details

Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing required

Device identities

Source device:	ME

Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	01	82	02	82	81	83	01	00

Expected Sequence 1.3 (SEND SHORT MESSAGE, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.3.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Short Message"	[Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.3	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.3.1

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Short Message"
Address
TON: International number
NPI: "ISDN / telephone numbering plan"
Dialling number string "112233445566778"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "012345678"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 13
TP-UD "Short Message"

Coding:

BER-TLV:	D0	3D	81	03	01	13	00	82	02	81	83	85
	0D	53	68	6F	72	74	20	4D	65	73	73	61
	67	65	86	09	91	11	22	33	44	55	66	77
	F8	8B	18	01	00	09	91	10	32	54	76	F8
	40	F0	0D	53	F4	5B	4E	07	35	CB	F3	79
	F8	5C	06									

SMS-PP (SEND SHORT MESSAGE) Message 1.3

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	13
TP-UD	"Short Message"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	F0	0D
	53	F4	5B	4E	07	35	CB	F3	79	F8	5C	06

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1

Logically:

Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.4 (SEND SHORT MESSAGE, packing required, 8 bit data, message of 160 characters user data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.4. 1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.4.1	[packing required, 8 bit data]
4	ME → USER	Display "The address data object holds the RP_Destination_Address "	[Alpha Identifier]
5	ME → USS	Send SMS-PP(SEND SHORT MESSAGE) Message 1.4	[message of 140 bytes user data]
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.4.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.4.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing required

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "The address data object holds the RP_Destination_Address"

Address
- TON: International number
- NPI: "ISDN / telephone numbering plan"
- Dialling number string "112233445566778"

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8 bit data
Message class	class 0
TP-UDL	160
TP-UD	"Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

BER-TLV:	D0	81	FD	81	03	01	13	01	82	02	81	83
	85	38	54	68	65	20	61	64	64	72	65	73
	73	20	64	61	74	61	20	6F	62	6A	65	63
	74	20	68	6F	6C	64	73	20	74	68	65	20
	52	50	11	44	65	73	74	69	6E	61	74	69
	6F	6E	11	41	64	64	72	65	73	73	86	09
	91	11	22	33	44	55	66	77	F8	8B	81	AC
	01	00	09	91	10	32	54	76	F8	40	F4	A0
	54	77	6F	20	74	79	70	65	73	20	61	72
	65	20	64	65	66	69	6E	65	64	3A	20	2D
	20	41	20	73	68	6F	72	74	20	6D	65	73
	73	61	67	65	20	74	6F	20	62	65	20	73
	65	6E	74	20	74	6F	20	74	68	65	20	6E
	65	74	77	6F	72	6B	20	69	6E	20	61	6E
	20	53	4D	53	2D	53	55	42	4D	49	54	20
	6D	65	73	73	61	67	65	2C	20	6F	72	20
	61	6E	20	53	4D	53	2D	43	4F	4D	4D	41
	4E	44	20	6D	65	73	73	61	67	65	2C	20
	77	68	65	72	65	20	74	68	65	20	75	73
	65	72	20	64	61	74	61	20	63	61	6E	20
	62	65	20	70	61	73	73	65	64	20	74	72
	61	6E	73	70								

SMS-PP (SEND SHORT MESSAGE) Message 1.4

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	160
TP-UD	"Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

Coding		01	01	09	91	10	32	54	76	F8	40	F0
	A0	D4	FB	1B	44	CF	C3	CB	73	50	58	5E
	06	91	CB	E6	B4	BB	4C	D6	81	5A	A0	20
	68	8E	7E	CB	E9	A0	76	79	3E	0F	9F	CB
	20	FA	1B	24	2E	83	E6	65	37	1D	44	7F
	83	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28
	ED	06	85	DD	A0	69	73	DA	9A	56	85	CD
	24	15	D4	2E	CF	E7	E1	73	99	05	7A	CB
	41	61	37	68	DA	9C	B6	86	CF	66	33	E8
	24	82	DA	E5	F9	3C	7C	2E	B3	40	77	74
	59	5E	06	D1	D1	65	50	7D	5E	96	83	C8
	61	7A	18	34	0E	BB	41	E2	32	08	1E	9E
	CF	CB	64	10	5D	1E	76	CF	E1			

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.4.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing required

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	01	82	02	82	81	83	01	00

Expected Sequence 1.5 (SEND SHORT MESSAGE, packing not required, SMS default alphabet, message of 160 characters user data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.5.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "The address data object holds the RP Destination Address "	[Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.5	[message of 140 bytes user data]
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.5.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing not required

Device identities
- Source device: UICC

Destination device:	Network
Alpha identifier:	"The address data object holds the RP Destination Address"
Address	
TON:	International number
NPI:	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	160
TP-UD	"Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

BER-TLV:	D0	81	E9	81	03	01	13	00	82	02	81	83
	85	38	54	68	65	20	61	64	64	72	65	73
	73	20	64	61	74	61	20	6F	62	6A	65	63
	74	20	68	6F	6C	64	73	20	74	68	65	20
	52	50	20	44	65	73	74	69	6E	61	74	69
	6F	6E	20	41	64	64	72	65	73	73	86	09
	91	11	22	33	44	55	66	77	F8	8B	81	98
	01	00	09	91	10	32	54	76	F8	40	F0	A0
	D4	FB	1B	44	CF	C3	CB	73	50	58	5E	06
	91	CB	E6	B4	BB	4C	D6	81	5A	A0	20	68
	8E	7E	CB	E9	A0	76	79	3E	0F	9F	CB	20
	FA	1B	24	2^{E}	83	E6	65	37	1D	44	7F	83
	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28	ED
	06	85	DD	A0	69	73	DA	9A	56	85	CD	24
	15	D4	2E	CF	E7	E1	73	99	05	7A	CB	41
	61	37	68	DA	9C	B6	86	CF	66	33	E8	24
	82	DA	E5	F9	3C	7C	2E	B3	40	77	74	59
	5E	06	D1	D1	65	50	7D	5E	96	83	C8	61
	7A	18	34	0E	BB	41	E2	32	08	1E	9E	CF
	CB	64	10	5D	1E	76	CF	E1				

SMS-PP (SEND SHORT MESSAGE) Message 1.5

Logically:

SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"

TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	160
TP-UD	"Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	F0	A0
	D4	FB	1B	44	CF	C3	CB	73	50	58	5E	06
	91	CB	E6	B4	BB	4C	D6	81	5A	A0	20	68
	8E	7E	CB	E9	A0	76	79	3E	0F	9F	CB	20
	FA	1B	24	2^{E}	83	E6	65	37	1D	44	7F	83
	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28	ED
	06	85	DD	A0	69	73	DA	9A	56	85	CD	24
	15	D4	2E	CF	E7	E1	73	99	05	7A	CB	41
	61	37	68	DA	9C	B6	86	CF	66	33	E8	24
	82	DA	E5	F9	3C	7C	2E	B3	40	77	74	59
	5E	06	D1	D1	65	50	7D	5E	96	83	C8	61
	7A	18	34	0E	BB	41	E2	32	08	1E	9E	CF
	CB	64	10	5D	1E	76	CF	E1				

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.6 (SEND SHORT MESSAGE, alpha identifier 160 bytes long, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.6.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transparently; - A short message to be sent to the network in an SMS-SUBMIT "	[Alpha Identifier of 160 bytes]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.6	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.6.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.6.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing not required

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transparently; - A short message to be sent to the network in an SMS-SUBMIT"

SMS TPDU
- TP-MTI SMS-SUBMIT
- TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
- TP-VPF TP-VP field not present
- TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
- TP-UDHI The TP-UD field contains only the short message
- TP-SRR A status report is not requested
- TP-MR "00"
- TP-DA
- TON International number
- NPI "ISDN / telephone numbering plan"
- Address value "01"
- TP-PID Short message type 0
- TP-DCS
- Message coding SMS default alphabet
- Message class class 0
- TP-UDL 1
- TP-UD " "

Coding:

BER-TLV:	D0	81	FD	81	03	01	13	00	82	02	81	83
	85	81	E6	54	77	6F	20	74	79	70	65	73
	20	61	72	65	20	64	65	66	69	6E	65	64
	3A	20	2D	20	41	20	73	68	6F	72	74	20
	6D	65	73	73	61	67	65	20	74	6F	20	62
	65	20	73	65	6E	74	20	74	6F	20	74	68
	65	20	6E	65	74	77	6F	72	6B	20	69	6^E
	20	61	6^E	20	53	4D	53	2D	53	55	42	4D
	49	54	20	6D	65	73	73	61	67	65	2C	20
	6F	72	20	61	6E	20	53	4D	53	2D	43	4F
	4D	4D	41	4^E	44	20	6D	65	73	73	61	67
	65	2C	20	77	68	65	72	65	20	74	68	65
	20	75	73	65	72	20	64	61	74	61	20	63
	61	6^E	20	62	65	20	70	61	73	73	65	64
	20	74	72	61	6^E	73	70	61	72	65	6^E	74
	6C	79	3B	20	2D	20	41	20	73	68	6F	72
	74	20	6D	65	73	73	61	67	65	20	74	6F
	20	62	65	20	73	65	6E	74	20	74	6F	20
	74	68	65	20	6E	65	74	77	6F	72	6B	20
	69	6E	20	61	6E	20	53	4D	53	2D	53	55
	42	4D	49	54	20	8B	09	01	00	02	91	10
	40	F0	01	20								

SMS-PP (SEND SHORT MESSAGE) Message 1.6

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "

Coding:

Coding	01	01	02	91	10	40	F0	01	20

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.6.1

Logically:

Command details

Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required

Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.7(SEND SHORT MESSAGE, alpha identifier length '00', packing not required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.7.1	[packing not required, 8-bit data]
4	ME	No information to user	[Alpha identifier length '00']
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.7	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.7.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.7.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier:
Address
    TON: International number
    NPI: "ISDN / telephone numbering plan"
    Dialling number string "112233445566778"
SMS TPDU
    TP-MTI SMS-SUBMIT
    TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF TP-VP field not present
    TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI The TP-UD field contains only the short message
    TP-SRR A status report is not requested
    TP-MR "00"
    TP-DA
    TON International number
    NPI "ISDN / telephone numbering plan"
    Address value "012345678"
    TP-PID Short message type 0
    TP-DCS
    Message coding 8-bit data
    Message class class 0
    TP-UDL 12

	TP-UD	"Test Message"

Coding:

BER-TLV:	D0	30	81	03	01	13	00	82	02	81	83	85
	00	86	09	91	11	22	33	44	55	66	77	F8
	8B	18	01	00	09	91	10	32	54	76	F8	40
	F4	0C	54	65	73	74	20	4D	65	73	73	61
	67	65										

SMS-PP (SEND SHORT MESSAGE) Message 1.7

Logically:

SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"01"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	8-bit data
	Message class	class 0
	TP-UDL	12
	TP-UD	"Test Message"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.7.1

Logically:

Command details		
	Command number:	1
	Command type:	SEND SHORT MESSAGE
	Command qualifier:	packing not required
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.8 (SEND SHORT MESSAGE, packing not required, 8-bit data, no alpha identifier, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.8.1	[packing not required, 8-bit data]
4	ME → USER	May give information to user concerning what is happening	[No Alpha Identifier]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.8	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.8.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.8.1

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Address	
TON:	International number
NPI:	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

BER-TLV:	D0	2E	81	03	01	13	00	82	02	81	83	86
	09	91	11	22	33	44	55	66	77	F8	8B	18
	01	00	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

SMS-PP (SEND SHORT MESSAGE) Message 1.8

Logically:

SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.8.1

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.8.

27.22.4.10.2 SEND SHORT MESSAGE (UCS2 display in Cyrillic)

27.22.4.10.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.2.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

Additionally, the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.10.2.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.2.4 Method of test

27.22.4.10.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.2.4.2 Procedure

Expected Sequence 2.1 (SEND SHORT MESSAGE, packing not required, UCS2 (16-bit data in Cyrillic))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.1	[packing not required, 16-bit data]
4	ME → USER	Display "ЗДРАВСТВУЙТЕ"	[Alpha Identifier] "Hello" in Russian, 0x80 coding of UCS2 format
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 2.1	Cyrillic
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1	[Command performed successfully]
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND SEND SHORT MESSAGE 2.1.2	
12	ME → USER	Display "ЗДРАВСТВУЙТЕ"	[Alpha Identifier] "Hello" in Russian, 0x81 coding of UCS2 format
13	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 2.1	
14	USS → ME	SMS RP-ACK	
15	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1	[Command performed successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3	
18	ME → UICC	FETCH	
19	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3	[UCS2 alphabet]
20	ME → USER	Display "ЗДРАВСТВУЙТЕ"	[Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format
21	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 2.1	
22	USS → ME	SMS RP-ACK	
23	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required
Device identities
  Source device: UICC
  Destination device: Network

Alpha identifier:	"ЗДРАВСТВУЙТЕ"
Address	
TON:	International number
NPI:	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	16-bit data
Message class	class 0
TP-UDL	24
TP-UD	"ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	55	81	03	01	13	00	82	02	81	83	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	86	09	91	11	22	33	44	55	66	77
	F8	8B	24	01	00	09	91	10	32	54	76	F8
	40	08	18	04	17	04	14	04	20	04	10	04
	12	04	21	04	22	04	12	04	23	04	19	04
	22	04	15									

SMS-PP (SEND SHORT MESSAGE) Message 2.1

Logically:

SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	UCS2 (16-bit data)
Message class	class 0
TP-UDL	24
TP-UD	"ЗДРАВСТВУЙТЕ"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	08	18
	04	17	04	14	04	20	04	10	04	12	04	21
	04	22	04	12	04	23	04	19	04	22	04	15

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.2

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "ЗДРАВСТВУЙТЕ"
Address
TON: International number
NPI: "ISDN / telephone numbering plan"
Dialling number string "112233445566778"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "012345678"
TP-PID Short message type 0
TP-DCS
Message coding 16-bit data
Message class class 0
TP-UDL 24
TP-UD "ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	4B	81	03	01	13	00	82	02	81	83	85
	0F	81	0C	08	97	94	A0	90	92	A1	A2	92
	A3	99	A2	95	86	09	91	11	22	33	44	55
	66	77	F8	8B	24	01	00	09	91	10	32	54
	76	F8	40	08	18	04	17	04	14	04	20	04
	10	04	12	04	21	04	22	04	12	04	23	04
	19	04	22	04	15							

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.3

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "ЗДРАВСТВУЙТЕ"

Address		
	TON:	International number
	NPI:	"ISDN / telephone numbering plan"
	Dialling number string	"112233445566778"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
	TP-VPF	TP-VP field not present
	TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
	TP-UDHI	The TP-UD field contains only the short message
	TP-SRR	A status report is not requested
	TP-MR	"00"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"
	TP-PID	Short message type 0
	TP-DCS	
	Message coding	16-bit data
	Message class	class 0
	TP-UDL	24
	TP-UD	"ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	4C	81	03	01	13	00	82	02	81	83	85
	10	82	0C	04	10	87	84	90	80	82	91	92
	82	93	89	92	85	86	09	91	11	22	33	44
	55	66	77	F8	8B	24	01	00	09	91	10	32
	54	76	F8	40	08	18	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: SEND SHORT MESSAGE 2.1.1

Logically:

Command details		
	Command number:	1
	Command type:	SEND SHORT MESSAGE
	Command qualifier:	packing not required
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.2.5 Test requirement

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

27.22.4.10.3 SEND SHORT MESSAGE (icon support)

27.22.4.10.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.3.2 Conformance requirement

27.22.4.10.3.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.3.4 Method of test

27.22.4.10.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as Toolkit default.

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

27.22.4.10.3.4.2 Procedure

Expected Sequence 3.1A (SEND SHORT MESSAGE, basic icon self-explanatory, packing not required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 3.1.1	[packing not required, 8-bit data]
4	ME → USER	Displays the icon and not the alpha identifier	[basic icon self-explanatory]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 3.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required
Device identities
  Source device: UICC
  Destination device: Network
  Alpha identifier: "NO ICON"
Address
  TON: International number
  NPI: "ISDN / telephone numbering plan"
  Dialling number string "112233445566778"
SMS TPDU
  TP-MTI SMS-SUBMIT
  TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
  TP-VPF TP-VP field not present
  TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
  TP-UDHI The TP-UD field contains only the short message
  TP-SRR A status report is not requested

TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8bit-data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"
Icon Identifier	
Icon Qualifier	self-explanatory
Icon Identifier	1 (number of record in EF IMG)

Coding:

BER-TLV:	D0	3B	81	03	01	13	00	82	02	81	83	85
	07	4E	4F	20	49	43	4F	4E	86	09	91	11
	22	33	44	55	66	77	F8	8B	18	01	00	09
	91	10	32	54	76	F8	40	F4	0C	54	65	73
	74	20	4D	65	73	73	61	67	65	9E	02	00
	01											

SMS-PP (SEND SHORT MESSAGE) Message 3.1

Logically:

SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1A

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	

Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 3.1B (SEND SHORT MESSAGE, basic icon self-explanatory, packing not required, 8-bit data, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 3.1.1	[packing not required, 8-bit data, basic icon self-explanatory]]
4	ME → USER	Displays the alpha identifier without the icon	
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1B

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	04

Expected Sequence 3.2A (SEND SHORT MESSAGE, basic icon non-self-explanatory, packing not required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1	[packing not required, 8-bit data]
4	ME → USER	display the icon and "Send SM"	[basic icon non-self-explanatory]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.2	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Alpha Identifier	"Send SM"
Address	
TON:	International number
NPI:	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8bit-data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"
Icon Identifier	
Icon Qualifier	non-self-explanatory
Icon Identifier	1 (number of record in EF IMG)

Coding:

BER-TLV:	D0	3B	81	03	01	13	00	82	02	81	83	85
	07	53	65	6E	64	20	53	4D	86	09	91	11
	22	33	44	55	66	77	F8	8B	18	01	00	09
	91	10	32	54	76	F8	40	F4	0C	54	65	73
	74	20	4D	65	73	73	61	67	65	1E	02	01
	01											

SMS-PP (SEND SHORT MESSAGE) Message 3.2

Logically:

SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"

Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1A

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing not required

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 3.2B (SEND SHORT MESSAGE, basic icon non-self-explanatory, packing not required, 8-bit data, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1	[packing not required, 8-bit data, basic icon non-self-explanatory]
4	ME → USER	display "Send SM" without the icon	
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.2	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1B

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing not required

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

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

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	04

27.22.4.10.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1A to 3.2B.

27.22.4.10.4 SEND SHORT MESSAGE (Support of Text Attribute)

27.22.4.10.4.1 SEND SHORT MESSAGE (Support of Text Attribute – Left Alignment)

27.22.4.10.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.1.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the left alignment text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.1.4 Method of test

27.22.4.10.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.1.4.2 Procedure

Expected Sequence 4.1 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Left Alignment, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with left alignment]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.1.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/11, no alignment change will take place]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.1

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"Text Attribute 1"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1

TP-UD " "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.2

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
SMS TPDU
    TP-MTI SMS-SUBMIT
    TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF TP-VP field not present
    TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
    TP-UDHI The TP-UD field contains only the short message
    TP-SRR A status report is not requested
    TP-MR "00"
    TP-DA
    TON International number
    NPI "ISDN / telephone numbering plan"
    Address value "01"
    TP-PID Short message type 0
    TP-DCS
    Message coding SMS default alphabet
    Message class class 0
    TP-UDL 1
    TP-UD " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20								

SMS-PP (SEND SHORT MESSAGE) Message 4.1

Logically:

SMS TPDU
    TP-MTI SMS-SUBMIT
    TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
    TP-VPF TP-VP field not present
    TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "

Coding:

Coding	01	01	02	91	10	40	F0	01	20

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.1.5 Test requirement

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

27.22.4.10.4.2 SEND SHORT MESSAGE (Support of Text Attribute – Center Alignment)

27.22.4.10.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.2.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the center alignment text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.2.4 Method of test

27.22.4.10.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.2.4.2 Procedure

Expected Sequence 4.2 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Center Alignment, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with center alignment]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.2.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/11, no alignment change will take place]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.1

Logically:

Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "Text Attribute 1"
SMS TPDU
  TP-MTI SMS-SUBMIT
  TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
  TP-VPF TP-VP field not present
  TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
  TP-UDHI The TP-UD field contains only the short message
  TP-SRR A status report is not requested
  TP-MR "00"

TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD " "	
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	01	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.2

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"Text Attribute 2"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1

Logically:

Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.10.4.3 SEND SHORT MESSAGE (Support of Text Attribute – Right Alignment)

27.22.4.10.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.3.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the right alignment text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.3.4 Method of test

27.22.4.10.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.3.4.2 Procedure

Expected Sequence 4.3 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Right Alignment, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with right alignment]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.3.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.3.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/11, no alignment change will take place]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.3.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing not required

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

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1

TP-UD " "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	02	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.2

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.3.1

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required

Device identities
 Source device: ME
 Destination device: UICC
Result
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.10.4.4 SEND SHORT MESSAGE (Support of Text Attribute – Large Font Size)

27.22.4.10.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.4.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the large font size text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.4.4 Method of test

27.22.4.10.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.4.4.2 Procedure

Expected Sequence 4.4 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Large Font Size, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1

Logically:

Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE

  - Command qualifier: packing not required
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "Text Attribute 1"
- SMS TPDU
  - TP-MTI SMS-SUBMIT
  - TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
  - TP-VPF TP-VP field not present
  - TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
  - TP-UDHI The TP-UD field contains only the short message
  - TP-SRR A status report is not requested
  - TP-MR "00"
  - TP-DA
  - TON International number
  - NPI "ISDN / telephone numbering plan"
  - Address value "01"
  - TP-PID Short message type 0
  - TP-DCS
  - Message coding SMS default alphabet
  - Message class class 0
  - TP-UDL 1
- TP-UD " "
- 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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	04	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.2

Logically:

- Command details
  - Command number: 1
  - Command type: SEND SHORT MESSAGE
  - Command qualifier: packing not required
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "Text Attribute 2"
- SMS TPDU
  - TP-MTI SMS-SUBMIT
  - TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
  - TP-VPF TP-VP field not present
  - TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
  - TP-UDHI The TP-UD field contains only the short message
  - TP-SRR A status report is not requested
  - TP-MR "00"
  - TP-DA
  - TON International number
  - NPI "ISDN / telephone numbering plan"
  - Address value "01"
  - TP-PID Short message type 0
  - TP-DCS

Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.3

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"Text Attribute 3"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1

Logically:

Command details	
Command number:	1

Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.10.4.5 SEND SHORT MESSAGE (Support of Text Attribute – Small Font Size)

27.22.4.10.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.5.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the small font size text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.5.4 Method of test

27.22.4.10.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.5.4.2 Procedure

Expected Sequence 4.5 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Small Font Size, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE

Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 1"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	08	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.2

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS

Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.3

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1

Logically:

Command details
Command number: 1

Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.10.4.6 SEND SHORT MESSAGE (Support of Text Attribute – Bold On)

27.22.4.10.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.6.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the bold text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.6.4 Method of test

27.22.4.10.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.6.4.2 Procedure

Expected Sequence 4.6 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Bold On, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with bold off]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with bold off]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC

Destination device: Network
Alpha identifier: "Text Attribute 1"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	10	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.2

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1

TP-UD " "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.3

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required

Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.10.4.7 SEND SHORT MESSAGE (Support of Text Attribute – Italic On)

27.22.4.10.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.7.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the italic text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.7.4 Method of test

27.22.4.10.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.7.4.2 Procedure

Expected Sequence 4.7 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Italic On, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with italic off]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with italic off]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1

Logically:

Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required
Device identities
  Source device: UICC

  - Destination device: Network
- Alpha identifier: "Text Attribute 1"
- SMS TPDU
  - TP-MTI SMS-SUBMIT
  - TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
  - TP-VPF TP-VP field not present
  - TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
  - TP-UDHI The TP-UD field contains only the short message
  - TP-SRR A status report is not requested
  - TP-MR "00"
  - TP-DA
  - TON International number
  - NPI "ISDN / telephone numbering plan"
  - Address value "01"
  - TP-PID Short message type 0
  - TP-DCS
  - Message coding SMS default alphabet
  - Message class class 0
  - TP-UDL 1
  - TP-UD " "
- 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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	20	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.2

Logically:

- Command details
  - Command number: 1
  - Command type: SEND SHORT MESSAGE
  - Command qualifier: packing not required
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "Text Attribute 2"
- SMS TPDU
  - TP-MTI SMS-SUBMIT
  - TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
  - TP-VPF TP-VP field not present
  - TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
  - TP-UDHI The TP-UD field contains only the short message
  - TP-SRR A status report is not requested
  - TP-MR "00"
  - TP-DA
  - TON International number
  - NPI "ISDN / telephone numbering plan"
  - Address value "01"
  - TP-PID Short message type 0
  - TP-DCS
  - Message coding SMS default alphabet
  - Message class class 0
  - TP-UDL 1

TP-UD " "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.3

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required

Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.10.4.8 SEND SHORT MESSAGE (Support of Text Attribute – Underline On)

27.22.4.10.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.8.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the underline text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.8.4 Method of test

27.22.4.10.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.8.4.2 Procedure

Expected Sequence 4.8 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Underline On, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with underline off]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with underline off]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE

Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 1"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	40	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.2

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS

Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.3

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"Text Attribute 3"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1

Logically:

Command details	
Command number:	1

Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.10.4.9 SEND SHORT MESSAGE (Support of Text Attribute – Strikethrough On)

27.22.4.10.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.9.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the strikethrough text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.9.4 Method of test

27.22.4.10.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.9.4.2 Procedure

Expected Sequence 4.9 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Strikethrough On, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with strikethrough off]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1	[packing not required, SMS default alphabet]
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
19	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
20	USS → ME	SMS RP-ACK	
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1	[Command performed successfully]
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.3	[packing not required, SMS default alphabet]
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with strikethrough off]
26	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
27	USS → ME	SMS RP-ACK	
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE

Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 1"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS
Message coding SMS default alphabet
Message class class 0
TP-UDL 1
TP-UD " "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	80	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.2

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SMS TPDU
TP-MTI SMS-SUBMIT
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF TP-VP field not present
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI The TP-UD field contains only the short message
TP-SRR A status report is not requested
TP-MR "00"
TP-DA
TON International number
NPI "ISDN / telephone numbering plan"
Address value "01"
TP-PID Short message type 0
TP-DCS

Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "
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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.3

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"Text Attribute 3"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1

Logically:

Command details	
Command number:	1

Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.10.4.10 SEND SHORT MESSAGE (Support of Text Attribute – Foreground and Background Colour)

27.22.4.10.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.10.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.10.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the foreground and background colour text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.10.4 Method of test

27.22.4.10.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.10.4.2 Procedure

Expected Sequence 4.10 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Foreground and Background Colour, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with foreground and background colour according to text attribute configuration]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.10.1	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.10.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.2	[packing not required, SMS default alphabet]
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with ME"s default foreground and background colour]
12	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
13	USS → ME	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.10.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.1

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"Text Attribute 1"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"01"
TP-PID	Short message type 0
TP-DCS	
Message coding	SMS default alphabet
Message class	class 0
TP-UDL	1
TP-UD	" "

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	2C	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8B	09	01	00	02	91	10
	40	F0	01	20	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.2

Logically:

Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "Text Attribute 2"
SMS TPDU
  TP-MTI SMS-SUBMIT
  TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
  TP-VPF TP-VP field not present
  TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
  TP-UDHI The TP-UD field contains only the short message
  TP-SRR A status report is not requested
  TP-MR "00"
  TP-DA
  TON International number
  NPI "ISDN / telephone numbering plan"
  Address value "01"
  TP-PID Short message type 0
  TP-DCS
  Message coding SMS default alphabet
  Message class class 0
  TP-UDL 1
  TP-UD " "

Coding:

BER-TLV:	D0	26	81	03	01	13	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8B	09	01	00	02	91	10
	40	F0	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.10.1

Logically:

Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required
Device identities
  Source device: ME
  Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.10.5 SEND SHORT MESSAGE (UCS2 display in Chinese)

27.22.4.10.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.5.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

Additionally, the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.10.5.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.5.4 Method of test

27.22.4.10.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.5.4.2 Procedure

Expected Sequence 5.1 (SEND SHORT MESSAGE, packing not required, UCS2 (16-bit data in Chinese))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 5.1.1	[packing not required, 16-bit data]
4	ME → USER	Display "中一"	[Alpha Identifier] "Middle 1" in Chinese, 0x80 coding of UCS2 format
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 5.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1	[Command performed successfully]
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 5.1.2	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND SEND SHORT MESSAGE 5.1.2	
12	ME → USER	Display "中一"	[Alpha Identifier] "Middle 1" in Chinese, 0x81 coding of UCS2 format
13	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 5.1	
14	USS → ME	SMS RP-ACK	
15	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1	[Command performed successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 5.1.3	
18	ME → UICC	FETCH	
19	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 5.1.3	[UCS2 alphabet]
20	ME → USER	Display "中一"	[Alpha Identifier] "Middle 1" in Chinese, 0x82 coding of UCS2 format
21	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 5.1	
22	USS → ME	SMS RP-ACK	
23	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SHORT MESSAGE
    Command qualifier: packing not required
Device identities
    Source device: UICC
    Destination device: Network

Alpha identifier:	"中一"
Address	
TON:	International number
NPI:	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	16-bit data
Message class	class 0
TP-UDL	24
TP-UD	"中一"

Coding:

BER-TLV:	D0	2D	81	03	01	13	00	82	02	81	83	85
	05	80	4E	2D	4E	00	86	09	91	11	22	33
	44	55	66	77	F8	8B	10	01	00	09	91	10
	32	54	76	F8	40	08	04	4E	2D	4E	00	

SMS-PP (SEND SHORT MESSAGE) Message 5.1

Logically:

SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	UCS2 (16-bit data)
Message class	class 0
TP-UDL	24
TP-UD	"中一"

Coding:

BER-TLV:	01	01	09	91	10	32	54	76	F8	40	08	04
	4E	2D	4E	00								

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.2

Logically:

- Command details
  - Command number: 1
  - Command type: SEND SHORT MESSAGE
  - Command qualifier: packing not required
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "中一"
- Address
  - TON: International number
  - NPI: "ISDN / telephone numbering plan"
  - Dialling number string "112233445566778"
- SMS TPDU
  - TP-MTI SMS-SUBMIT
  - TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
  - TP-VPF TP-VP field not present
  - TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
  - TP-UDHI The TP-UD field contains only the short message
  - TP-SRR A status report is not requested
  - TP-MR "00"
  - TP-DA
  - TON International number
  - NPI "ISDN / telephone numbering plan"
  - Address value "012345678"
  - TP-PID Short message type 0
  - TP-DCS
  - Message coding 16-bit data
  - Message class class 0
  - TP-UDL 24
  - TP-UD "中一"

Coding:

BER-TLV:	D0	2D	81	03	01	13	00	82	02	81	83	85
	05	81	02	9C	AD	80	86	09	91	11	22	33
	44	55	66	77	F8	8B	10	01	00	09	91	10
	32	54	76	F8	40	08	04	4E	2D	4E	00	

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.3

Logically:

- Command details
  - Command number: 1
  - Command type: SEND SHORT MESSAGE
  - Command qualifier: packing not required
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "中一"
- Address
  - TON: International number
  - NPI: "ISDN / telephone numbering plan"
  - Dialling number string "112233445566778"
- SMS TPDU
  - TP-MTI SMS-SUBMIT

TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	16-bit data
Message class	class 0
TP-UDL	24
TP-UD	"中一"

Coding:

BER-TLV:	D0	2E	81	03	01	13	00	82	02	81	83	85
	06	82	02	4E	00	AD	80	86	09	91	11	22
	33	44	55	66	77	F8	8B	10	01	00	09	91
	10	32	54	76	F8	40	08	04	4E	2D	4E	00

TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

27.22.4.10.5.5 Test requirement

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

27.22.4.10.6 SEND SHORT MESSAGE (UCS2 display in Katakana)

27.22.4.10.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.6.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

Additionally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.10.6.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.6.4 Method of test

27.22.4.10.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.6.4.2 Procedure

Expected Sequence 6.1 (SEND SHORT MESSAGE, packing not required, UCS2 (16-bit data, in Katakana))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.1	[packing not required, 16-bit data]
4	ME → USER	Display "80ル0"	[Characters in katakana]
5	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 6.1	
6	USS → ME	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1	[Command performed successfully]
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.2	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.2	[packing not required, 16-bit data]
12	ME → USER	Display "81ル1"	[Characters in katakana]
13	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 6.2	
14	USS → ME	SMS RP-ACK	
15	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1	[Command performed successfully]
16	UICC → ME	PROACTIVE UICC SESSION ENDED	
17	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.3	
18	ME → UICC	FETCH	
19	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.3	[packing not required, 16-bit data]
20	ME → USER	Display "82ル2"	[Characters in katakana]
21	ME → USS	Send SMS-PP (SEND SHORT MESSAGE) Message 6.3	
22	USS → ME	SMS RP-ACK	
23	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1	[Command performed successfully]
24	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND SHORT MESSAGE
  Command qualifier: packing not required
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "80ル0"
Address
  TON: International number
  NPI: "ISDN / telephone numbering plan"
  Dialling number string "112233445566778"

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept a SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	16-bit data
Message class	class 0
TP-UDL	10
TP-UD	"80ル1"

Coding:

BER-TLV:	D0	35	81	03	01	13	00	82	02	81	83	85
	09	80	00	38	00	30	30	EB	00	30	86	09
	91	11	22	33	44	55	66	77	F8	8B	14	01
	00	09	91	10	32	54	76	F8	40	08	08	00
	38	00	30	30	EB	00	31					

SMS-PP (SEND SHORT MESSAGE) Message 6.1

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	UCS2 (16-bit data)
Message class	class 0
TP-UDL	10
TP-UD	"80ル1"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	08	08
	00	38	00	30	30	EB	00	31				

TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1

Logically:

Command details

Command number:	1

Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.2

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"81ル1"
Address	
TON:	International number
NPI:	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept a SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	16-bit data
Message class	class 0
TP-UDL	10
TP-UD	"80ル2"

Coding:

BER-TLV:	D0	33	81	03	01	13	00	82	02	81	83	85
	07	81	04	61	38	31	EB	31	86	09	91	11
	22	33	44	55	66	77	F8	8B	14	01	00	09
	91	10	32	54	76	F8	40	08	08	00	38	00
	30	30	EB	00	32							

SMS-PP (SEND SHORT MESSAGE) Message 6.2

Logically:

SMS TPDU	
TP-MTI	SMS-SUBMIT

TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	UCS2 (16-bit data)
Message class	class 0
TP-UDL	10
TP-UD	"80ル2"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	08	08
	00	38	00	30	30	EB	00	32				

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.3

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"82ル2"
Address	
TON:	International number
NPI:	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept a SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	16-bit data
Message class	class 0
TP-UDL	10
TP-UD	"80ル3"

Coding:

BER-TLV:	D0	34	81	03	01	13	00	82	02	81	83	85
	08	82	04	30	A0	38	32	CB	32	86	09	91
	11	22	33	44	55	66	77	F8	8B	14	01	00
	09	91	10	32	54	76	F8	40	08	08	00	38
	00	30	30	EB	00	33						

SMS-PP (SEND SHORT MESSAGE) Message 6.3

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	UCS2 (16-bit data)
Message class	class 0
TP-UDL	10
TP-UD	"80ル3"

Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	08	08
	00	38	00	30	30	EB	00	33				

27.22.4.10.6.5 Test requirement

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

27.22.4.11 SEND SS

27.22.4.11.1 SEND SS (normal)

27.22.4.11.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.1.3 Test purpose

To verify that the ME correctly translates and sends the supplementary service request indicated in the SEND SS proactive UICC command to the USS.

To verify that the ME returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the SS and any contents of the SS result as additional data.

27.22.4.11.1.4 Method of test

27.22.4.11.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.1.4.2 Procedure

Expected Sequence 1.1A (SEND SS, call forward unconditional, all bearers, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → USS	REGISTER 1.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.1.1A	

Expected Sequence 1.1B (SEND SS, call forward unconditional, all bearers, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → USS	REGISTER 1.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.1.1B	

PROACTIVE COMMAND: SEND SS 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Call Forward"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	29	81	03	01	11	00	82	02	81	83	85
	0C	43	61	6C	6C	20	46	6F	72	77	61	72
	64	89	10	91	AA	12	0A	21	43	65	87	09
	21	43	65	87	A9	01	FB					

REGISTER 1.1A

Logically (only SS argument):

REGISTER SS ARGUMENT
SS-Code:
- Call Forwarding Unconditional
TeleserviceCode
- All Tele Services
ForwardedToNumber
- nature of address ind.: international
- numbering plan ind.: ISDN/Telephony (E.164)
- TBCD String: 01234567890123456789
- longFTN-Supported

Coding:

BER-TLV	30	15	04	01	21	83	01	00	84	0B	91	10
	32	54	76	98	10	32	54	76	98	89	00	

REGISTER 1.1B

Logically (only SS argument):

REGISTER SS ARGUMENT
SS-Code:
- Call Forwarding Unconditional
TeleserviceCode
- All Tele Services
ForwardedToNumber
- nature of address ind.: international
- numbering plan ind.: ISDN/Telephony (E.164)
- TBCD String: 01234567890123456789

Coding:

BER-TLV	30	13	04	01	21	83	01	00	84	0B	91	10
	32	54	76	98	10	32	54	76	98			

RELEASE COMPLETE (SS RETURN RESULT) 1.1A

Logically (only from operation code):

REGISTER SS RETURN RESULT
ForwardingInfo
SS-Code
- Call Forwarding Unconditional
ForwardFeatureList
ForwardingFeature
TeleserviceCode
- All Tele Services
SS-Status
- state ind.: operative
- provision ind.: provisioned
- registration ind.: registered
- activation ind.: active

longForwardedToNumber
- nature of address ind.: international
- numbering plan ind.: ISDN/Telephony (E.164)
- TBCD String: 01234567890123456789

Coding:

Coding											
Coding	0A	A0	1A	04	01	21	30	15	30	13	83	01
	00	84	01	07	89	0B	91	10	32	54	76	98
	10	32	54	76	98							

RELEASE COMPLETE (SS RETURN RESULT) 1.1B

Logically (only from operation code):

REGISTER SS RETURN RESULT
- ForwardingInfo
- SS-Code
  - Call Forwarding Unconditional
- ForwardFeatureList
  - ForwardingFeature
  - TeleserviceCode
    - All Tele Services
- SS-Status
- state ind.: operative
- provision ind.: provisioned
- registration ind.: registered
- activation ind.: active

Coding:

Coding	0A	A0	0D	04	01	21	30	08	30	06	83	01
	00	84	01	07								

TERMINAL RESPONSE: SEND SS 1.1.1A

Logically:

Command details
- Command number: 1
- Command type: SEND SS
- Command qualifier: "00"

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

Result
- General Result: Command performed successfully
- Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	89	0B	91	10	32
	54	76	98	10	32	54	76	98			

TERMINAL RESPONSE: SEND SS 1.1.1B

Logically:

Command details
- Command number: 1

Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	11
	00	0A	A0	0D	04	01	21	30	08	30	06
	83	01	00	84	01	07					

Expected Sequence 1.2 (SEND SS, call forward unconditional, all bearers, Return Error)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → USS	REGISTER 1.1A Or REGISTER 1.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN ERROR) 1.1	[Return Error]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.2.1	

RELEASE COMPLETE (SS RETURN ERROR) 1.1

Logically (only from error code):

Error Code: Facility not supported

Coding:

Coding	02	01	15

TERMINAL RESPONSE: SEND SS 1.2.1

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: SS Return Error
Additional information: Error Code

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	02
	34	15									

Expected Sequence 1.3 (SEND SS, call forward unconditional, all bearers, Reject)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → USS	REGISTER 1.1A Or REGISTER 1.1B	
6	USS → ME	RELEASE COMPLETE (SS REJECT) 1.1.	[Reject]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.3.1	

RELEASE COMPLETE (SS REJECT) 1.1

Logically (only from problem code):

Problem Code:
- General problem
- Unrecognized component

Coding:

Coding	80	01	00

TERMINAL RESPONSE: SEND SS 1.3.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: SS Return Error
    Additional information: No specific cause can be given

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	02
	34	00									

Expected Sequence 1.4A (SEND SS, call forward unconditional, all bearers, successful, SS request size limit)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.4.1	
4	ME → USER	Display "Call Forward"	
5	ME → USS	REGISTER 1.2A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.2A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.4.1A	

Expected Sequence 1.4B (SEND SS, call forward unconditional, all bearers, successful, SS request size limit)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.4.1	
4	ME → USER	Display "Call Forward"	
5	ME → USS	REGISTER 1.2B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.2B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.4.1B	

PROACTIVE COMMAND: SEND SS 1.4.1

Logically:

- Command details
    - Command number: 1
    - Command type: SEND SS
    - Command qualifier: "00"
- Device identities
    - Source device: UICC
    - Destination device: Network
    - Alpha identifier: "Call Forward"
- SS String
    - TON: International
    - NPI: "ISDN / telephone numbering plan"
    - SS string: "**21*0123456789012345678901234567*11#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	0C	43	61	6C	6C	20	46	6F	72	77	61	72
	64	89	14	91	AA	12	0A	21	43	65	87	09
	21	43	65	87	09	21	43	65	A7	11	FB	

REGISTER 1.2A

Logically (only SS argument):

- REGISTER SS ARGUMENT
    - RegisterSSArg
    - SS-Code
        - Call Forwarding Unconditional
    - TeleserviceCode
        - See Note 1
    - ForwardedToNumber
        - nature of address ind.: international
        - numbering plan ind.: ISDN/Telephony (E.164)
        - TBCD String: 0123456789012345678901234567
        - longFTN-Supported

Coding:

BER-TLV	30	19	04	01	21	83	01	Note 1	84	0F	91	10
	32	54	76	98	10	32	54	76	98	10	32	54
	76	89	00									

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

REGISTER 1.2B

Logically (only SS argument):

REGISTER SS ARGUMENT
RegisterSSArg
SS-Code
Call Forwarding Unconditional
TeleserviceCode
See Note 1
ForwardedToNumber
nature of address ind.: international
numbering plan ind.: ISDN/Telephony (E.164)
TBCD String: 0123456789012345678901234567

Coding:

BER-TLV	30	17	04	01	21	83	01	Note 1	84	0F	91	10
	32	54	76	98	10	32	54	76	98	10	32	54
	76											

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

Logically (only from operation code):

REGISTER SS RETURN RESULT
ForwardingInfo
SS-Code
- Call Forwarding Unconditional
ForwardFeatureList
ForwardingFeature
TeleserviceCode
- See Note 1
SS-Status
- state ind.: operative
- provision ind.: provisioned
- registration ind.: registered
- activation ind.: active
longForwardedToNumber
- nature of address ind.: international
- numbering plan ind.: ISDN/Telephony (E.164)
- TBCD String: 0123456789012345678901234567

Coding:

Coding	0A	A0	1E	04	01	21	30	19	30	17	83	01
	Note 1	84	01	07	89	0F	91	10	32	54	76	98
	10	32	54	76	98	10	32	54	76			

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

RELEASE COMPLETE (SS RETURN RESULT) 1.2B

Logically (only from operation code):

REGISTER SS RETURN RESULT
ForwardingInfo
SS-Code
- Call Forwarding Unconditional
ForwardFeatureList
ForwardingFeature
TeleserviceCode
- See Note 1
SS-Status

- state ind.: operative
- provision ind.: provisioned
- registration ind.: registered
- activation ind.: active

Coding:

Coding	0A	A0	0D	04	01	21	30	08	30	06	83	01
	Note 1	84	01	07								

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

TERMINAL RESPONSE: SEND SS 1.4.1A

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	22
	00	0A	A0	1E	04	01	21	30	19	30	17
	83	01	Note 1	84	01	07	89	0F	91	10	32
	54	76	98	10	32	54	76	98	10	32	54
	76										

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

TERMINAL RESPONSE: SEND SS 1.4.1B

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	11
	00	0A	A0	0D	04	01	21	30	08	30	06
	83	01	Note 1	84	01	07					

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

Expected Sequence 1.5 (SEND SS, interrogate CLIR status, successful, alpha identifier limits)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.5.1	
4	ME → USER	Display "Even if the Fixed Dialling Number service is enabled, the supplementary service control string included in the SEND SS proactive command shall not be checked against those of the FDN list. Upon receiving this command, the ME shall deci"	
5	ME → USS	REGISTER 1.3	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.3	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.5.1	

PROACTIVE COMMAND: SEND SS 1.5.1

Logically:

Command details
- Command number: 1
- Command type: SEND SS
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "Even if the Fixed Dialling Number service is enabled, the supplementary service control string included in the SEND SS proactive command shall not be checked against those of the FDN list. Upon receiving this command, the ME shall deci"

SS String
- TON: Undefined
- NPI: Undefined
- SS string: "*#31#"

Coding:

BER-TLV:	D0	81	FD	81	03	01	11	00	82	02	81	83
	85	81	EB	45	76	65	6E	20	69	66	20	74
	68	65	20	46	69	78	65	64	20	44	69	61
	6C	6C	69	6E	67	20	4E	75	6D	62	65	72
	20	73	65	72	76	69	63	65	20	69	73	20
	65	6E	61	62	6C	65	64	2C	20	74	68	65
	20	73	75	70	70	6C	65	6D	65	6E	74	61
	72	79	20	73	65	72	76	69	63	65	20	63
	6F	6E	74	72	6F	6C	20	73	74	72	69	6E
	67	20	69	6E	63	6C	75	64	65	64	20	69
	6E	20	74	68	65	20	53	45	4E	44	20	53
	53	20	70	72	6F	61	63	74	69	76	65	20
	63	6F	6D	6D	61	6E	64	20	73	68	61	6C
	6C	20	6E	6F	74	20	62	65	20	63	68	65
	63	6B	65	64	20	61	67	61	69	6E	73	74
	20	74	68	6F	73	65	20	6F	66	20	74	68
	65	20	46	44	4E	20	6C	69	73	74	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	64	65	63	69	89	04
	FF	BA	13	FB								

REGISTER 1.3

Logically (only SS argument):

INTERROGATE SS ARGUMENT
    SS-Code
    - Calling Line Id Restriction

Coding:

BER-TLV	30	03	04	01	12

RELEASE COMPLETE (SS RETURN RESULT) 1.3

Logically (only from operation code):

INTERROGATE SS RESULT
    CliRestrictionInfo
    SS-Status
    - state ind.: operative
    - provision ind.: provisioned
    - registration ind.: registered
    - activation ind.: not active
    CliRestrictionOption
    - Temporary Def Allowed

Coding:

Coding	0E	A4	06	04	01	06	0A	01	02

TERMINAL RESPONSE: SEND SS 1.5.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Additional information
    Operation Code: SS Code
    Parameters: SS Return Result

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	0A
	00	0E	A4	06	04	01	06	0A	01	02	

Expected Sequence 1.6A (SEND SS, call forward unconditional, all bearers, successful, null data alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.6.1	
4	ME	Should not give any information to the user on the fact that the ME is sending an SS request	
5	ME → USS	REGISTER 1.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.1.1A	

Expected Sequence 1.6B (SEND SS, call forward unconditional, all bearers, successful, null data alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 1.6.1	
4	ME	Should not give any information to the user on the fact that the ME is sending an SS request	
5	ME → USS	REGISTER 1.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.1.1B	

PROACTIVE COMMAND: SEND SS 1.6.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: null data object
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	1D	81	03	01	11	00	82	02	81	83	85
	00	89	10	91	AA	12	0A	21	43	65	87	09
	21	43	65	87	A9	01	FB					

27.22.4.11.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1 to 1.6.

27.22.4.11.2 SEND SS (Icon support)

27.22.4.11.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.2.2 Conformance requirement

27.22.4.11.2.3 Test purpose

To verify that the ME displays the text contained in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send 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 ME to inform the user, in addition to, or instead of the alpha identifier, as indicated with the icon qualifier.

27.22.4.11.2.4 Method of test

27.22.4.11.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and to the USS. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

The elementary files are coded as Toolkit default.

27.22.4.11.2.4.2 Procedure

Expected Sequence 2.1A (SEND SS, call forward unconditional, all bearers, successful, basic icon self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display the basic icon without the alpha identifier	
5	ME → USS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1AA or TERMINAL RESPONSE: SEND SS 2.1.1AB	[Command performed successfully] Option AA applies if A.1/63 is supported, Option AB applies if A.1/63 is not supported

PROACTIVE COMMAND: SEND SS 2.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC

Destination device: Network
Alpha identifier: "Basic Icon"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"
Icon Identifier:
Icon qualifier: icon is self-explanatory
Icon Identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	2B	81	03	01	11	00	82	02	81	83	85
	0A	42	61	73	69	63	20	49	63	6F	6E	89
	10	91	AA	12	0A	21	43	65	87	09	21	43
	65	87	A9	01	FB	9E	02	00	01			

TERMINAL RESPONSE: SEND SS 2.1.1AA

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	1E
	00	0A	A0	1A	04	01	21	30	15	30	13
	83	01	00	84	01	07	89	0B	91	10	32
	54	76	98	10	32	54	76	98			

TERMINAL RESPONSE: SEND SS 2.1.1AB

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	11
	00	0A	A0	0D	04	01	21	30	08	30	06
	83	01	00	84	01	07					

Expected Sequence 2.1B (SEND SS, call forward unconditional, all bearers, successful, basic icon self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → USS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1BA or TERMINAL RESPONSE: SEND SS 2.1.1BB	[Command performed successfully, but requested icon could not be displayed] Option BA applies if A.1/63 is supported, Option BB applies if A.1/63 is not supported

TERMINAL RESPONSE: SEND SS 2.1.1BA

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully, but requested icon could not be displayed
Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:

81	03	01	11	00	82	02	82	81	03	1E
04	0A	A0	1A	04	01	21	30	15	30	13
83	01	00	84	01	07	89	0B	91	10	32
54	76	98	10	32	54	76	98			

TERMINAL RESPONSE: SEND SS 2.1.1BB

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully, but requested icon could not be displayed
Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:

81	03	01	11	00	82	02	82	81	03	11
04	0A	A0	0D	04	01	21	30	08	30	06
83	01	00	84	01	07					

Expected Sequence 2.2A (SEND SS, call forward unconditional, all bearers, successful, colour icon self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.2.1	[COLOUR-ICON, self-explanatory]
4	ME → USER	Display the colour icon without thealpha identifier	
5	ME → USS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1AA or TERMINAL RESPONSE: SEND SS 2.1.1AB	[Command performed successfully] Option AA applies if A.1/63 is supported, Option AB applies if A.1/63 is not supported

PROACTIVE COMMAND: SEND SS 2.2.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Colour Icon"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"
Icon Identifier:
    Icon qualifier: icon is self-explanatory
    Icon Identifier: record 2 in $EF_{(IMG)}$

Coding:

BER-TLV:												
	D0	2C	81	03	01	11	00	82	02	81	83	85
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6E
	89	10	91	AA	12	0A	21	43	65	87	09	21
	43	65	87	A9	01	FB	9E	02	00	02		

Expected Sequence 2.2B (SEND SS, call forward unconditional, all bearers, successful, colour icon self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.2.1	[COLOUR-ICON, self-explanatory]
4	ME → USER	Display "Colour Icon" without the icon	
5	ME → USS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1BA or TERMINAL RESPONSE: SEND SS 2.1.1BB	[Command performed but requested icon could not be displayed] Option BA applies if A.1/63 is supported, Option BB applies if A.1/63 is not supported

Expected Sequence 2.3A (SEND SS, call forward unconditional, all bearers, successful, basic icon non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" and the basic icon	
5	ME → USS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1AA or TERMINAL RESPONSE: SEND SS 2.1.1AB	[Command performed successfully] Option AA applies if A.1/63 is supported, Option AB applies if A.1/63 is not supported

PROACTIVE COMMAND: SEND SS 2.3.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha Identifier
    Text: "Basic Icon"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"
Icon Identifier

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

Coding:

BER-TLV:	D0	2B	81	03	01	11	00	82	02	81	83	85
	0A	42	61	73	69	63	20	49	63	6F	6E	89
	10	91	AA	12	0A	21	43	65	87	09	21	43
	65	87	A9	01	FB	9E	02	01	01			

Expected Sequence 2.3B (SEND SS, call forward unconditional, all bearers, successful, basic icon non self-explanatory)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → USS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
7	ME → UICC	TERMINAL RESPONSE: SEND SS 2.1.1BA or TERMINAL RESPONSE: SEND SS 2.1.1BB	[Command performed but requested icon could not be displayed] Option BA applies if A.1/63 is supported, Option BB applies if A.1/63 is not supported

Expected Sequence 2.4 (SEND SS, call forward unconditional, all bearers, successful, basic icon non self-explanatory, no alpha identifier presented)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 2.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 2.4.1	[BASIC-ICON, non self-explanatory]
4	ME → UICC	TERMINAL RESPONSE: SEND SS 2.4.1	[Command data not understood by ME]

PROACTIVE COMMAND: SEND SS 2.4.1

Logically:

Command details
  Command number: 1
  Command type: SEND SS
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
SS String
  TON: International
  NPI: "ISDN / telephone numbering plan"
  SS string: "**21*01234567890123456789#"
Icon Identifier

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

Coding:

BER-TLV:	D0	1D	81	03	01	11	00	82	02	81	83	89
	0E	91	AA	12	0A	21	43	65	87	09	21	43
	65	87	B9	9E	02	01	01					

TERMINAL RESPONSE: SEND SS 2.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	83	01	32

27.22.4.11.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1A to 2.4.

27.22.4.11.3 SEND SS (UCS2 display in Cyrillic)

27.22.4.11.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.3.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionnally, the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in: ISO/IEC 10646 [17].

27.22.4.11.3.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.3.4 Method of test

27.22.4.11.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.3.4.2 Procedure

Expected Sequence 3.1 (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Cyrillic)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 3.1.1	
4	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	ME → USS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported
7	ME → UICC	TERMINAL RESPONSE: SEND SS 1.1.1A or TERMINAL RESPONSE: SEND SS 1.1.1B	[Command performed successfully] Option A applies if A.1/63 is supported, Option B applies if A.1/63 is not supported

PROACTIVE COMMAND: SEND SS 3.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha Identifier
    Data coding scheme: UCS2 (16bit)
    Text: "ЗДРАВСТВУЙТЕ"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	36	81	03	01	11	00	82	02	81	83	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	89	10	91	AA	12	0A	21	43	65	87
	09	21	43	65	87	A9	01	FB				

27.22.4.11.3.5 Test requirement

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

27.22.4.11.4 SEND SS (support of Text Attribute)

27.22.4.11.4.1 SEND SS (support of Text Attribute – Left Alignment)

27.22.4.11.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.1.3 Test purpose

To verify that the ME displays the alpha identifier according to the left alignment text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.1.4 Method of test

27.22.4.11.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.1.4.2 Procedure

Expected Sequence 4.1A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.1.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with left alignment]
5	ME → USS	REGISTER 4.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.1.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.1.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/12, no alignment change will take place]
12	ME → USS	REGISTER 4.1A	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	

Expected Sequence 4.1B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.1.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with left alignment]
5	ME → USS	REGISTER 4.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.1.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.1.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/12, no alignment change will take place]
12	ME → USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.1.1

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 1"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"
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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.1.2

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

REGISTER 4.1A

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

REGISTER 4.1B

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

RELEASE COMPLETE (SS RETURN RESULT) 4.1A

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1A

RELEASE COMPLETE (SS RETURN RESULT) 4.1B

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1B

TERMINAL RESPONSE: SEND SS 4.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

TERMINAL RESPONSE: SEND SS 4.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

27.22.4.11.4.1.5 Test requirement

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

27.22.4.11.4.2 SEND SS (support of Text Attribute – Center Alignment)

27.22.4.11.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.2.3 Test purpose

To verify that the ME displays the alpha identifier according to the center alignment text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.2.4 Method of test

27.22.4.11.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.2.4.2 Procedure

Expected Sequence 4.2A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.2.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with center alignment]
5	ME → USS	REGISTER 4.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.2.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.2.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/12, no alignment change will take place]
12	ME → USS	REGISTER 4.1A	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	

Expected Sequence 4.2B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.2.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with center alignment]
5	ME → USS	REGISTER 4.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.2.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.2.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/12, no alignment change will take place]
12	ME → USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.2.1

Logically:

Command details		
	Command number:	1
	Command type:	SEND SS
	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 1"
SS String		
	TON:	International
	NPI:	"ISDN / telephone numbering plan"
	SS string:	"**21*01234567890123456789*10#"
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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	01	B4							

PROACTIVE COMMAND: SEND SS 4.2.2

Logically:

Command details		
	Command number:	1
	Command type:	SEND SS
	Command qualifier:	"00"
Device identities		
	Source device:	UICC
	Destination device:	Network
Alpha identifier:		"Text Attribute 2"
SS String		
	TON:	International
	NPI:	"ISDN / telephone numbering plan"
	SS string:	"**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

27.22.4.11.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.11.4.3 SEND SS (support of Text Attribute – Right Alignment)

27.22.4.11.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.3.3 Test purpose

To verify that the ME displays the alpha identifier according to the right alignment text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.3.4 Method of test

27.22.4.11.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.3.4.2 Procedure

Expected Sequence 4.3A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.3.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with right alignment]
5	ME → USS	REGISTER 4.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.3.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.3.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/12, no alignment change will take place]
12	ME → USS	REGISTER 4.1A	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	

Expected Sequence 4.3B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.3.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with right alignment]
5	ME → USS	REGISTER 4.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.3.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.3.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/12, no alignment change will take place]
12	ME → USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.3.1

Logically:

Command details	
Command number:	1
Command type:	SEND SS
Command qualifier:	"00"
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"Text Attribute 1"
SS String	
TON:	International
NPI:	"ISDN / telephone numbering plan"
SS string:	"**21*01234567890123456789*10#"
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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	02	B4							

PROACTIVE COMMAND: SEND SS 4.3.2

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

27.22.4.11.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.11.4.4 SEND SS (support of Text Attribute – Large Font Size)

27.22.4.11.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.4.3 Test purpose

To verify that the ME displays the alpha identifier according to the large font size text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.4.4 Method of test

27.22.4.11.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.4.4.2 Procedure

Expected Sequence 4.4A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
5	ME → USS	REGISTER 4.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
12	ME → USS	REGISTER 4.1A	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
19	ME → USS	REGISTER 4.1A	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
26	ME → USS	REGISTER 4.1A	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	

Expected Sequence 4.4B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
5	ME → USS	REGISTER 4.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
12	ME → USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with large font size]
19	ME → USS	REGISTER 4.1B	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.4.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.4.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
26	ME → USS	REGISTER 4.1B	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"
SS String

  - TON: International
  - NPI: "ISDN / telephone numbering plan"
  - SS string: "**21*01234567890123456789*10#"
- 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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	04	B4							

PROACTIVE COMMAND: SEND SS 4.4.2

Logically:

- Command details
  - Command number: 1
  - Command type: SEND SS
  - Command qualifier: "00"
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "Text Attribute 2"
- SS String
  - TON: International
  - NPI: "ISDN / telephone numbering plan"
  - SS string: "**21*01234567890123456789*10#"
- 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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.4.3

Logically:

- Command details
  - Command number: 1
  - Command type: SEND SS
  - Command qualifier: "00"
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "Text Attribute 3"
- SS String
  - TON: International

NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

27.22.4.11.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.11.4.5 SEND SS (support of Text Attribute – Small Font Size)

27.22.4.11.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.5.3 Test purpose

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.5.4 Method of test

27.22.4.11.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.5.4.2 Procedure

Expected Sequence 4.5A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
5	ME → USS	REGISTER 4.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
12	ME → USS	REGISTER 4.1A	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
19	ME → USS	REGISTER 4.1A	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
26	ME → USS	REGISTER 4.1A	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	

Expected Sequence 4.5B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
5	ME → USS	REGISTER 4.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with normal font size]
12	ME → USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with small font size]
19	ME → USS	REGISTER 4.1B	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.5.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.5.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with normal font size]
26	ME → USS	REGISTER 4.1B	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.5.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"
SS String

- TON: International
- NPI: "ISDN / telephone numbering plan"
- SS string: "**21*01234567890123456789*10#"

- 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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	08	B4							

PROACTIVE COMMAND: SEND SS 4.5.2

Logically:

- Command details
  - Command number: 1
  - Command type: SEND SS
  - Command qualifier: "00"
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "Text Attribute 2"
- SS String
  - TON: International
  - NPI: "ISDN / telephone numbering plan"
  - SS string: "**21*01234567890123456789*10#"
- 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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.5.3

Logically:

- Command details
  - Command number: 1
  - Command type: SEND SS
  - Command qualifier: "00"
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "Text Attribute 3"
- SS String
  - TON: International

NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

27.22.4.11.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.11.4.6 SEND SS (support of Text Attribute – Bold On)

27.22.4.11.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.6.3 Test purpose

To verify that the ME displays the alpha identifier according to the bold text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.6.4 Method of test

27.22.4.11.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.6.4.2 Procedure

Expected Sequence 4.6A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
5	ME → USS	REGISTER 4.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with bold off]
12	ME → USS	REGISTER 4.1A	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
19	ME → USS	REGISTER 4.1A	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with bold off]
26	ME → USS	REGISTER 4.1A	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	

Expected Sequence 4.6B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
5	ME → USS	REGISTER 4.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with bold off]
12	ME → USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
19	ME → USS	REGISTER 4.1B	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.6.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.6.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with bold off]
26	ME → USS	REGISTER 4.1B	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.6.1

Logically:

Command details

Command number:	1
Command type:	SEND SS
Command qualifier:	"00"

Device identities

Source device:	UICC
Destination device:	Network

Alpha identifier: "Text Attribute 1"

SS String

TON:	International
NPI:	"ISDN / telephone numbering plan"
SS string:	"**21*01234567890123456789*10#"

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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	10	B4							

PROACTIVE COMMAND: SEND SS 4.6.2

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"
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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.6.3

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

27.22.4.11.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.11.4.7 SEND SS (support of Text Attribute – Italic On)

27.22.4.11.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.7.3 Test purpose

To verify that the ME displays the alpha identifier according to the italic text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.7.4 Method of test

27.22.4.11.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.7.4.2 Procedure

Expected Sequence 4.7A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
5	ME → USS	REGISTER 4.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with italic off]
12	ME → USS	REGISTER 4.1A	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
19	ME → USS	REGISTER 4.1A	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with italic off]
26	ME → USS	REGISTER 4.1A	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	

Expected Sequence 4.7B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
5	ME → USS	REGISTER 4.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with italic off]
12	ME → USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
19	ME → USS	REGISTER 4.1B	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.7.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.7.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with italic off]
26	ME → USS	REGISTER 4.1B	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.7.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"
SS String
    TON: International
    NPI: "ISDN / telephone numbering plan"
    SS string: "**21*01234567890123456789*10#"

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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	20	B4							

PROACTIVE COMMAND: SEND SS 4.7.2

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"
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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.7.3

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

27.22.4.11.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.11.4.8 SEND SS (support of Text Attribute – Underline On)

27.22.4.11.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.8.3 Test purpose

To verify that the ME displays the alpha identifier according to the underline text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.8.4 Method of test

27.22.4.11.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.8.4.2 Procedure

Expected Sequence 4.8A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
5	ME → USS	REGISTER 4.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with underline off]
12	ME → USS	REGISTER 4.1A	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
19	ME → USS	REGISTER 4.1A	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with underline off]
26	ME → USS	REGISTER 4.1A	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	

Expected Sequence 4.8B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
5	ME → USS	REGISTER 4.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with underline off]
12	ME → USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with underline on]
19	ME → USS	REGISTER 4.1B	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.8.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.8.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with underline off]
26	ME → USS	REGISTER 4.1B	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.8.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"
SS String

TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"
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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	40	B4							

PROACTIVE COMMAND: SEND SS 4.8.2

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"
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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.8.3

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
SS String
TON: International

NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

27.22.4.11.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.11.4.9 SEND SS (support of Text Attribute – Strikethrough On)

27.22.4.11.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.9.3 Test purpose

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.9.4 Method of test

27.22.4.11.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.9.4.2 Procedure

Expected Sequence 4.9A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
5	ME → USS	REGISTER 4.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with strikethrough off]
12	ME → USS	REGISTER 4.1A	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
19	ME → USS	REGISTER 4.1A	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with strikethrough off]
26	ME → USS	REGISTER 4.1A	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	

Expected Sequence 4.9B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
5	ME → USS	REGISTER 4.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with strikethrough off]
12	ME → USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
19	ME → USS	REGISTER 4.1B	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
21	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.9.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND SS 4.9.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with strikethrough off]
26	ME → USS	REGISTER 4.1B	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
28	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.9.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"
SS String

TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"
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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	80	B4							

PROACTIVE COMMAND: SEND SS 4.9.2

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"
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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.9.3

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
SS String

TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

27.22.4.11.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.11.4.10 SEND SS (support of Text Attribute – Foreground and Background Colour)

27.22.4.11.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.10.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.10.3 Test purpose

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.10.4 Method of test

27.22.4.11.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.10.4.2 Procedure

Expected Sequence 4.10A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.10.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with foreground and background colour according to text attribute configuration]
5	ME → USS	REGISTER 4.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.10.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.10.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with ME"s default foreground and background colour]
12	ME → USS	REGISTER 4.1A	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1A	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1A	

Expected Sequence 4.10B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 4.10.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with foreground and background colour according to text attribute configuration]
5	ME → USS	REGISTER 4.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 4.10.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND SS 4.10.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with ME"s default foreground and background colour]
12	ME → USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.10.1

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 1"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"
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	33	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	D0
	04	00	10	00	B4							

PROACTIVE COMMAND: SEND SS 4.10.2

Logically:

Command details
Command number: 1
Command type: SEND SS
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	A9	01	FB	

27.22.4.11.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.11.5 SEND SS (UCS2 display in Chinese)

27.22.4.11.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.5.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionnally, the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in: ISO/IEC 10646 [17].

27.22.4.11.5.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.5.4 Method of test

27.22.4.11.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.5.4.2 Procedure

Expected Sequence 5.1A (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Chinese)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 5.1.1	
4	ME → USER	Display "你好"	["Hello" in Chinese]
5	ME → USS	REGISTER 5.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 5.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 5.1.1A	[Command performed successfully]

Expected Sequence 5.1B (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Chinese)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 5.1.1	
4	ME → USER	Display "你好"	["Hello" in Chinese]
5	ME → USS	REGISTER 5.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 5.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 5.1.1B	[Command performed successfully]

PROACTIVE COMMAND: SEND SS 5.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND SS
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
  Alpha Identifier
  Data coding scheme: UCS2 (16bit)
  Text: "你好"
SS String
  TON: International
  NPI: "ISDN / telephone numbering plan"
  SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	22	81	03	01	11	00	82	02	81	83	85
	05	80	4F	60	59	7D	89	10	91	AA	12	0A
	21	43	65	87	09	21	43	65	87	A9	01	FB

REGISTER 5.1A

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

REGISTER 5.1B

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

RELEASE COMPLETE (SS RETURN RESULT) 5.1A

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1A

RELEASE COMPLETE (SS RETURN RESULT) 5.1B

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1B

TERMINAL RESPONSE: SEND SS 5.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

TERMINAL RESPONSE: SEND SS 5.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

27.22.4.11.5.5 Test requirement

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

27.22.4.11.6 SEND SS (UCS2 display in Katakana)

27.22.4.11.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.6.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionnally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in: ISO/IEC 10646 [17].

27.22.4.11.6.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.6.4 Method of test

27.22.4.11.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.6.4.2 Procedure

Expected Sequence 6.1A (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Katakana)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 6.1.1	
4	ME → USER	Display "ﾙ"	[Character in Katakana]
5	ME → USS	REGISTER 6.1A	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 6.1A	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 6.1.1A	[Command performed successfully]

Expected Sequence 6.1B (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Katakana)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SS 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SS 6.1.1	
4	ME → USER	Display "ﾙ"	[Character in Katakana]
5	ME → USS	REGISTER 6.1B	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 6.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND SS 6.1.1B	[Command performed successfully]

PROACTIVE COMMAND: SEND SS 6.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND SS
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network

Alpha Identifier
Data coding scheme: UCS2 (16bit)
Text: "ル"
SS String
TON: International
NPI: "ISDN / telephone numbering plan"
SS string: "**21*01234567890123456789*10#"

Coding:

BER-TLV:	D0	20	81	03	01	11	00	82	02	81	83	85
	03	80	30	EB	89	10	91	AA	12	0A	21	43
	65	87	09	21	43	65	87	A9	01	FB		

REGISTER 6.1A

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

REGISTER 6.1B

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

RELEASE COMPLETE (SS RETURN RESULT) 6.1A

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1A

RELEASE COMPLETE (SS RETURN RESULT) 6.1B

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1B

TERMINAL RESPONSE: SEND SS 6.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

TERMINAL RESPONSE: SEND SS 6.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

27.22.4.11.6.5 Test requirement

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

27.22.4.12 SEND USSD

27.22.4.12.1 SEND USSD (normal)

27.22.4.12.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.
- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:
ISO/IEC 10646 [17].

27.22.4.12.1.3 Test purpose

To verify that the ME correctly translates and sends the unstructured supplementary service request indicated in the SEND USSD proactive UICC command to the USS.

To verify that the ME returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the USSD request and including a USSD result as a text string in the TERMINAL RESPONSE.

27.22.4.12.1.4 Method of test

27.22.4.12.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.1.4.2 Procedure

Expected Sequence 1.1 (SEND USSD, 7-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	ME → USER	Display "7-bit USSD"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.1.1	

PROACTIVE COMMAND: SEND USSD 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SEND USSD
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "7-bit USSD"

USSD String
- Data coding scheme: 7-bit default, no message class
- USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	50	81	03	01	12	00	82	02	81	83	85
	0A	37	2D	62	69	74	20	55	53	53	44	8A
	39	F0	41	E1	90	58	34	1^{E}	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60		

REGISTER 1.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT
USSD-DataCodingScheme:
- 7-bit default, no message class
USSD string:
- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 1.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
USSD-DataCodingScheme:
- 7-bit default, no message class
USSD string:
- "USSD string received from SS"

Coding:

BER-TLV	30	1E	04	01	F0	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 1.1.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Text String
Data coding scheme: 7-bit default, no message class
String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

Expected Sequence 1.2 (SEND USSD, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.2.1	
4	ME → USER	Display "8-bit USSD"	
5	ME → USS	REGISTER 1.2	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.2	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.2.1	

PROACTIVE COMMAND: SEND USSD 1.2.1

Logically:

Command details
 Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"
Device identities
 Source device: UICC
 Destination device: Network
 Alpha identifier: "8-bit USSD"
USSD String
 Data coding scheme: Uncompressed, no message class meaning, 8-bit data
 USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	58	81	03	01	12	00	82	02	81	83	85
	0A	38	2D	62	69	74	20	55	53	53	44	8A
	41	44	41	42	43	44	45	46	47	48	49	4A
	4B	4C	4D	4E	4F	50	51	52	53	54	55	56
	57	58	59	5A	2D	61	62	63	64	65	66	67
	68	69	6A	6B	6C	6D	6E	6F	70	71	72	73
	74	75	76	77	78	79	7A	2D	31	32	33	34
	35	36	37	38	39	30						

REGISTER 1.2

Logically (only USSD argument):

ProcessUnstructuredSS-Request ARGUMENT
 USSD-DataCodingScheme:
 - Uncompressed, no message class meaning, 8-bit data
 USSD string:
 - "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	45	04	01	44	04	40	41	42	43	44	45
	46	47	48	49	4A	4B	4C	4D	4E	4F	50	51
	52	53	54	55	56	57	58	59	5A	2D	61	62
	63	64	65	66	67	68	69	6A	6B	6C	6D	6E
	6F	70	71	72	73	74	75	76	77	78	79	7A
	2D	31	32	33	34	35	36	37	38	39	30	

RELEASE COMPLETE (SS RETURN RESULT) 1.2

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
USSD-DataCodingScheme:
- Uncompressed, no message class meaning, 8-bit data
USSD string:
- "USSD string received from SS"

Coding:

BER-TLV	30	21	04	01	44	04	1C	55	53	53	44	20
	73	74	72	69	6E	67	20	72	65	63	65	69
	76	65	64	20	66	72	6F	6D	20	53	53	

TERMINAL RESPONSE: SEND USSD 1.2.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Text String
Data coding scheme: Uncompressed, no message class meaning, 8-bit data
String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1D	04	55	53	53	44	20	73	74
	72	69	6E	67	20	72	65	63	65	69	76
	65	64	20	66	72	6F	6D	20	53	53	

Expected Sequence 1.3 (SEND USSD, UCS2 data, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.3.1	
4	ME → USER	Display "UCS2 USSD"	
5	ME → USS	REGISTER 1.3	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.3	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.3.1	

PROACTIVE COMMAND: SEND USSD 1.3.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"

Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "UCS2 USSD"
USSD String
Data coding scheme: Uncompressed, no message class meaning, UCS2 (16 bit)
USSD string: "ЗДРАВСТВУЙТЕ" ("Hello" in Russian)

Coding:

BER-TLV:	D0	2F	81	03	01	12	00	82	02	81	83	85
	09	55	43	53	32	20	55	53	53	44	8A	19
	48	04	17	04	14	04	20	04	10	04	12	04
	21	04	22	04	12	04	23	04	19	04	22	04
	15											

REGISTER 1.3

Logically (only USSD argument):

ProcessUnstructuredSS-Request ARGUMENT
USSD-DataCodingScheme:
- Uncompressed, no message class meaning, UCS2 (16 bit)

USSD string:
- "ЗДРАВСТВУЙТЕ" ("Hello" in Russian)

Coding:

BER-TLV	30	1D	04	01	48	04	18	04	17	04	14	04
	20	04	10	04	12	04	21	04	22	04	12	04
	23	04	19	04	22	04	15					

RELEASE COMPLETE (SS RETURN RESULT) 1.3

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
USSD-DataCodingScheme:
- Uncompressed, no message class meaning, UCS2 (16 bit)

USSD string:
- "USSD string received from SS"

Coding:

BER-TLV	30	3D	04	01	48	04	38	00	55	00	53	00
	53	00	44	00	20	00	73	00	74	00	72	00
	69	00	6E	00	67	00	20	00	72	00	65	00
	63	00	65	00	69	00	76	00	65	00	64	00
	20	00	66	00	72	00	6F	00	6D	00	20	00
	53	00	53									

TERMINAL RESPONSE: SEND USSD 1.3.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME

Destination device: UICC
Result
General Result: Command performed successfully
Text String
Data coding scheme: Uncompressed, no message class meaning, UCS2 (16 bit)
String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	39	08	00	55	00	53	00	53	00
	44	00	20	00	73	00	74	00	72	00	69
	00	6E	00	67	00	20	00	72	00	65	00
	63	00	65	00	69	00	76	00	65	00	64
	00	20	00	66	00	72	00	6F	00	6D	00
	20	00	53	00	53						

Expected Sequence 1.4 (SEND USSD, 7-bit data, unsuccessful (Return Error))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	ME → USER	Display "7-bit USSD"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN ERROR) 1.1	Return Error
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.4.1	

RELEASE COMPLETE (SS RETURN ERROR) 1.1

Logically (only from Return Error code):

ProcessUnstructuredSS-Request RETURN ERROR
Return Error code:
- Unknown alphabet

Coding:

Coding	02	01	47

TERMINAL RESPONSE: SEND USSD 1.4.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: USSD Return Error
Additional information: "Unknown alphabet"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	02
	37	47									

Expected Sequence 1.5 (SEND USSD, 7-bit data, unsuccessful (Reject))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	ME → USER	Display "7-bit USSD"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS REJECT) 1.1	Reject
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.5.1	

RELEASE COMPLETE (SS REJECT) 1.1

Logically (only from Problem code):

ProcessUnstructuredSS-Request REJECT
  Invoke Problem code:
  - Mistyped parameter

Coding:

Coding	81	01	02

TERMINAL RESPONSE: SEND USSD 1.5.1

Logically:

Command details
  Command number: 1
  Command type: SEND USSD
  Command qualifier: "00"
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: USSD Return Error
  Additional information: "No specific cause can be given"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	02
	37	00									

Expected Sequence 1.6 (SEND USSD, 256 octets, 7-bit data, successful, long alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.6.1	
4	ME → USER	Display "once a RELEASE COMPLETE message containing the USSD Return Result message not containing an error has been received from the network, the ME shall inform the SIM that the command has"	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.1.1	

PROACTIVE COMMAND: SEND USSD 1.6.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "once a RELEASE COMPLETE message containing the USSD Return Result message not containing an error has been received from the network, the ME shall inform the SIM that the command has"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	81	FD	81	03	01	12	00	82	02	81	83
	85	81	B6	6F	6E	63	65	20	61	20	52	45
	4C	45	41	53	45	20	43	4F	4D	50	4C	45
	54	45	20	6D	65	73	73	61	67	65	20	63
	6F	6E	74	61	69	6^E	69	6^E	67	20	74	68
	65	20	55	53	53	44	20	52	65	74	75	72
	6^E	20	52	65	73	75	6C	74	20	6D	65	73
	73	61	67	65	20	6E	6F	74	20	63	6F	6E
	74	61	69	6E	69	6E	67	20	61	6E	20	65
	72	72	6F	72	20	68	61	73	20	62	65	65
	6E	20	72	65	63	65	69	76	65	64	20	66
	72	6F	6D	20	74	68	65	20	6E	65	74	77
	6F	72	6B	2C	20	74	68	65	20	4D	45	20
	73	68	61	6C	6C	20	69	6E	66	6F	72	6D
	20	74	68	65	20	53	49	4D	20	74	68	61
	74	20	74	68	65	20	63	6F	6D	6D	61	6E
	64	20	68	61	73	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

Expected Sequence 1.7 (SEND USSD, 7-bit data, successful, no alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.7.1	
4	ME → USER	Optionally display an informative message	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.1.1	

PROACTIVE COMMAND: SEND USSD 1.7.1

Logically:

Command details
Command number: 1
Command type: SEND USSD

Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	44	81	03	01	12	00	82	02	81	83	8A
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60		

Expected Sequence 1.8 (SEND USSD, 7-bit data, successful, null length alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 1.8.1	
4	ME → USER	the ME should not give any information to the user on the fact that the ME is sending a USSD request	
5	ME → USS	REGISTER 1.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 1.1.1	

PROACTIVE COMMAND: SEND USSD 1.8.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: ""
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	46	81	03	01	12	00	82	02	81	83	85
	00	8A	39	F0	41	E1	90	58	34	1E	91	49
	E5	92	D9	74	3E	A1	51	E9	94	5A	B5	5E
	B1	59	6D	2B	2C	1E	93	CB	E6	33	3A	AD
	5E	B3	DB	EE	37	3C	2E	9F	D3	EB	F6	3B
	3E	AF	6F	C5	64	33	5A	CD	76	C3	E5	60

27.22.4.12.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 - 1.8.

27.22.4.12.2 SEND USSD (Icon support)

27.22.4.12.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.2.2 Conformance requirement

27.22.4.12.2.3 Test purpose

To verify that the ME displays the text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send 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 ME to inform the user, in addition to, or instead of the alpha identifier, as indicated with the icon qualifier.

27.22.4.12.2.4 Method of test

27.22.4.12.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and to the USS. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS

The elementary files are coded as Toolkit default.

27.22.4.12.2.4.2 Procedure

Expected Sequence 2.1A (SEND USSD, 7-bit data, successful, basic icon self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display BASIC ICON	
5	ME → USS	REGISTER 2.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.1.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND USSD 2.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Basic Icon"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

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

Coding:

BER-TLV:	D0	54	81	03	01	12	00	82	02	81	83	85
	0A	42	61	73	69	63	20	49	63	6F	6E	8A
	39	F0	41	E1	90	58	34	1^E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60	9^E	02
	00	01										

REGISTER 2.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT
USSD-DataCodingScheme:
- 7-bit default, no message class
USSD string:
- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1^E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 2.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
USSD-DataCodingScheme:
- 7-bit default, no message class
USSD string:
- "USSD string received from SS"

Coding:

BER-TLV	30	1E	04	01	F0	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 2.1.1A

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result

General Result: Command performed successfully
Text String
Data coding scheme: 7-bit default, no message class
String: "USSD string received from SS"

Coding:

BER-TLV:										
81	03	01	12	00	82	02	82	81	83	01
00	8D	1A	00	D5	E9	94	08	9A	D3	E5
69	F7	19	24	2F	8F	CB	69	7B	99	0C
32	CB	DF	6D	D0	74	0A				

Expected Sequence 2.1B (SEND USSD, 7-bit data, successful, basic icon self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → USS	REGISTER 2.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.1.1B	[Command performed but requested icon could not be displayed]

TERMINAL RESPONSE: SEND USSD 2.1.1B

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully, but requested icon could not be displayed
Text String
Data coding scheme: 7-bit default, no message class
String: "USSD string received from SS"

Coding:

BER-TLV:										
81	03	01	12	00	82	02	82	81	83	01
04	8D	1A	00	D5	E9	94	08	9A	D3	E5
69	F7	19	24	2F	8F	CB	69	7B	99	0C
32	CB	DF	6D	D0	74	0A				

Expected Sequence 2.2 (SEND USSD, 7-bit data, successful, colour icon self explanatory)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.2.1	[COLOUR-ICON, self-explanatory]
4	ME → USER	Display COLOUR-ICON or May give information to user concerning what is happening	
5	ME → USS	REGISTER 2.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.1.1A or TERMINAL RESPONSE: SEND USSD 2.1.1B	[Command performed successfully] or [Command performed but requested icon could not be displayed]

PROACTIVE COMMAND: SEND USSD 2.2.1

Logically:

Command details
  Command number: 1
  Command type: SEND USSD
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
  Alpha identifier: "Color Icon"
USSD String
  Data coding scheme: 7-bit default, no message class
  USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
Icon Identifier:
  Icon qualifier: icon is self-explanatory
  Icon Identifier: record 2 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	54	81	03	01	12	00	82	02	81	83	85
	0A	43	6F	6C	6F	72	20	49	63	6F	6E	8A
	39	F0	41	E1	90	58	34	1^{E}	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60	9^{E}	02
	00	02										

Expected Sequence 2.3A (SEND USSD, 7-bit data, successful, basic icon non self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" and BASIC-ICON	
5	ME → USS	REGISTER 2.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.1.1A	[Command performed successfully]

PROACTIVE COMMAND: SEND USSD 2.3.1

Logically:

- Command details
  - Command number: 1
  - Command type: SEND USSD
  - Command qualifier: "00"
- Device identities
  - Source device: UICC
  - Destination device: Network
  - Alpha identifier: "Basic Icon"
- USSD String
  - Data coding scheme: 7-bit default, no message class
  - USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
- Icon Identifier
  - Icon qualifier: icon is non self-explanatory
  - Icon Identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	54	81	03	01	12	00	82	02	81	83	85
	0A	42	61	73	69	63	20	49	63	6F	6E	8A
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60	9^{E}	02
	01	01										

Expected Sequence 2.3B (SEND USSD, 7-bit data, successful, basic icon non self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → USS	REGISTER 2.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.1.1B	[Command performed but requested icon could not be displayed]

Expected Sequence 2.4 (SEND USSD, 7-bit data, basic icon non self-explanatory, no alpha identifier presented)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 2.4.1	[BASIC-ICON, non self-explanatory]
4	ME → UICC	TERMINAL RESPONSE: SEND USSD 2.4.1	[Command data not understood by ME]

PROACTIVE COMMAND: SEND USSD 2.4.1

Logically:

Command details
- Command number: 1
- Command type: SEND USSD
- Command qualifier: "00"

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

USSD String
- Data coding scheme: 7-bit default, no message class
- USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

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

Coding:

BER-TLV:	D0	48	81	03	01	12	00	82	02	81	83	8A
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60	9^{E}	02
	01	01										

TERMINAL RESPONSE: SEND USSD 2.4.1

Logically:

Command details
  Command number: 1
  Command type: SEND USSD
  Command qualifier: "00"
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01	32

27.22.4.12.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 - 2.4.

27.22.4.12.3 SEND USSD (UCS2 display in Cyrillic)

27.22.4.12.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:
ISO/IEC 10646 [17].

27.22.4.12.3.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.3.4 Method of test

27.22.4.12.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.3.4.2 Procedure

Expected Sequence 3.1 (SEND USSD, 7-bit data, successful, UCS2 text in Cyrillic)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 3.1.1	
4	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	ME → USS	REGISTER 3.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 3.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 3.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND USSD 3.1.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha Identifier
Data coding scheme: UCS2 (16bit)
Text: "ЗДРАВСТВУЙТЕ"
USSD String
Data coding scheme: 7-bit default, no message class
USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

Coding:

BER-TLV:	D0	5F	81	03	01	12	00	82	02	81	83	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	8A	39	F0	41	E1	90	58	34	1E	91
	49	E5	92	D9	74	3E	A1	51	E9	94	5A	B5
	5E	B1	59	6D	2B	2C	1E	93	CB	E6	33	3A
	AD	5E	B3	DB	EE	37	3C	2E	9F	D3	EB	F6
	3B	3E	AF	6F	C5	64	33	5A	CD	76	C3	E5
	60											

REGISTER 3.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT
USSD-DataCodingScheme:
- 7-bit default, no message class
USSD String:
- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1^E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 3.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
USSD-DataCodingScheme:
- 7-bit default, no message class
USSD String:
- "USSD string received from SS"

Coding:

BER-TLV	30	1^E	04	01	F0	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 3.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String
    Data coding scheme: 7-bit default, no message class
    String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.3.5 Test requirement

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

27.22.4.12.4 SEND USSD (support of Text Attribute)

27.22.4.12.4.1 SEND USSD (support of Text Attribute – Left Alignment)

27.22.4.12.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.1.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.1.3 Test purpose

To verify that the ME displays the alpha identifier according to the left alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.1.4 Method of test

27.22.4.12.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.1.4.2 Procedure

Expected Sequence 4.1 (SEND USSD, 7-bit data, successful, with Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.1.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with left alignment]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.1.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.1.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.1.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/13, no alignment change will take place]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.1.1	

PROACTIVE COMMAND: SEND USSD 4.1.1

Logically:

Command details

Command number:	1
Command type:	SEND USSD
Command qualifier:	"00"

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 1"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.1.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

REGISTER 4.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT
USSD-DataCodingScheme:
- 7-bit default, no message class

USSD string:
- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

Coding	30	3D	04	01	F0	04	40	41	E1	90	58	34
	1^{E}	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 4.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
  USSD-DataCodingScheme:
  - 7-bit default, no message class
  USSD string:
  - "USSD string received from SS"

Coding:

BER-TLV	30	1E	04	01	F0	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 4.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND USSD
  Command qualifier: "00"
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
Text String
  Data coding scheme: 7-bit default, no message class
  String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.1.5 Test requirement

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

27.22.4.12.4.2 SEND USSD (support of Text Attribute – Center Alignment)

27.22.4.12.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.2.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.2.3 Test purpose

To verify that the ME displays the alpha identifier according to the center alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.2.4 Method of test

27.22.4.12.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.2.4.2 Procedure

Expected Sequence 4.2 (SEND USSD, 7-bit data, successful, with Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.2.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with center alignment]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.2.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.2.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.2.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/13, no alignment change will take place]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.2.1	

PROACTIVE COMMAND: SEND USSD 4.2.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 1"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	01	B4		

PROACTIVE COMMAND: SEND USSD 4.2.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.2.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities

Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Text String
Data coding scheme: 7-bit default, no message class
String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.12.4.3 SEND USSD (support of Text Attribute – Right Alignment)

27.22.4.12.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.3.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.3.3 Test purpose

To verify that the ME displays the alpha identifier according to the right alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.3.4 Method of test

27.22.4.12.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.3.4.2 Procedure

Expected Sequence 4.3 (SEND USSD, 7-bit data, successful, with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.3.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with right alignment]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.3.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.3.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.3.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/13, no alignment change will take place]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.3.1	

PROACTIVE COMMAND: SEND USSD 4.3.1

Logically:

Command details
  Command number: 1
  Command type: SEND USSD
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "Text Attribute 1"
USSD String
  Data coding scheme: 7-bit default, no message class
  USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	02	B4		

PROACTIVE COMMAND: SEND USSD 4.3.2

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1^{E}	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.3.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String
    Data coding scheme: 7-bit default, no message class
    String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.12.4.4 SEND USSD (support of Text Attribute – Large Font Size)

27.22.4.12.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.4.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.4.3 Test purpose

To verify that the ME displays the alpha identifier according to the large font size text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.4.4 Method of test

27.22.4.12.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.4.4.2 Procedure

Expected Sequence 4.4 (SEND USSD, 7-bit data, successful, with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.4.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with large font size]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.4.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.4.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.4.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with normal font size]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.4.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.4.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.4.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with large font size]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.4.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.4.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.4.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with normal font size]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.4.1	

PROACTIVE COMMAND: SEND USSD 4.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"

USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	04	B4		

PROACTIVE COMMAND: SEND USSD 4.4.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.4.3

Logically:

Command details
Command number: 1

Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.4.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Text String
Data coding scheme: 7-bit default, no message class
String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.12.4.5 SEND USSD (support of Text Attribute – Small Font Size)

27.22.4.12.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.5.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.5.3 Test purpose

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.5.4 Method of test

27.22.4.12.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.5.4.2 Procedure

Expected Sequence 4.5 (SEND USSD, 7-bit data, successful, with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.5.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with small font size]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.5.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.5.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.5.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with normal font size]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.5.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.5.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.5.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with small font size]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.5.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.5.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.5.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with normal font size]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.5.1	

PROACTIVE COMMAND: SEND USSD 4.5.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"

USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	08	B4		

PROACTIVE COMMAND: SEND USSD 4.5.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.5.3

Logically:

Command details
Command number: 1

Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1^{E}	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.5.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Text String
Data coding scheme: 7-bit default, no message class
String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.12.4.6 SEND USSD (support of Text Attribute – Bold On)

27.22.4.12.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.6.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.6.3 Test purpose

To verify that the ME displays the alpha identifier according to the bold text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.6.4 Method of test

27.22.4.12.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.6.4.2 Procedure

Expected Sequence 4.6 (SEND USSD, 7-bit data, successful, with Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.6.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with bold on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.6.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.6.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.6.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with bold off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.6.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.6.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.6.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with bold on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.6.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.6.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.6.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with bold off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.6.1	

PROACTIVE COMMAND: SEND USSD 4.6.1

Logically:

Command details
  Command number: 1
  Command type: SEND USSD
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "Text Attribute 1"
USSD String
  Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	10	B4		

PROACTIVE COMMAND: SEND USSD 4.6.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.6.3

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"

Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 3"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1^E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.6.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Text String
    Data coding scheme: 7-bit default, no message class
    String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.12.4.7 SEND USSD (support of Text Attribute – Italic On)

27.22.4.12.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.7.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.7.3 Test purpose

To verify that the ME displays the alpha identifier according to the italic text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.7.4 Method of test

27.22.4.12.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.7.4.2 Procedure

Expected Sequence 4.7 (SEND USSD, 7-bit data, successful, with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.7.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with italic on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.7.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.7.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.7.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with italic off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.7.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.7.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.7.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with italic on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.7.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.7.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.7.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with italic off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.7.1	

PROACTIVE COMMAND: SEND USSD 4.7.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 1"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	20	B4		

PROACTIVE COMMAND: SEND USSD 4.7.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.7.3

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1^{E}	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.7.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Text String
Data coding scheme: 7-bit default, no message class
String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.12.4.8 SEND USSD (support of Text Attribute – Underline On)

27.22.4.12.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.8.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.8.3 Test purpose

To verify that the ME displays the alpha identifier according to the underline text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.8.4 Method of test

27.22.4.12.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.8.4.2 Procedure

Expected Sequence 4.8 (SEND USSD, 7-bit data, successful, with Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.8.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with underline on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.8.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.8.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.8.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with underline off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.8.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.8.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.8.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with underline on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.8.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.8.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.8.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with underline off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.8.1	

PROACTIVE COMMAND: SEND USSD 4.8.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"

USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	40	B4		

PROACTIVE COMMAND: SEND USSD 4.8.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.8.3

Logically:

Command details
Command number: 1

  - Command type: SEND USSD
  - Command qualifier: "00"
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "Text Attribute 3"
- USSD String
  - Data coding scheme: 7-bit default, no message class
  - USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.8.1

Logically:

- Command details
  - Command number: 1
  - Command type: SEND USSD
  - Command qualifier: "00"
- Device identities
  - Source device: ME
  - Destination device: UICC
- Result
  - General Result: Command performed successfully
- Text String
  - Data coding scheme: 7-bit default, no message class
  - String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.12.4.9 SEND USSD (support of Text Attribute – Strikethrough On)

27.22.4.12.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.9.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.9.3 Test purpose

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.9.4 Method of test

27.22.4.12.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.9.4.2 Procedure

Expected Sequence 4.9 (SEND USSD, 7-bit data, successful, with Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.9.1	
4	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with strikethrough on]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.9.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.9.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.9.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with strikethrough off]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.9.1	
15	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.9.1	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.9.1	
18	ME → USER	Display "Text Attribute 1"	[Alpha identifier is displayed with strikethrough on]
19	ME → USS	REGISTER 4.1	
20	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.9.1	
22	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.9.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.9.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with strikethrough off]
26	ME → USS	REGISTER 4.1	
27	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
28	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.9.1	

PROACTIVE COMMAND: SEND USSD 4.9.1

Logically:

Command details
  Command number: 1
  Command type: SEND USSD
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "Text Attribute 1"

USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	80	B4		

PROACTIVE COMMAND: SEND USSD 4.9.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.9.3

Logically:

Command details
Command number: 1

Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 3"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1^{E}	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.9.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Text String
Data coding scheme: 7-bit default, no message class
String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.12.4.10 SEND USSD (support of Text Attribute – Foreground and Background Colour)

27.22.4.12.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.10.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.10.3 Test purpose

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.10.4 Method of test

27.22.4.12.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.10.4.2 Procedure

Expected Sequence 4.10 (SEND USSD, 7-bit data, successful, with Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.10.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with foreground and background colour according to text attribute configuration]
5	ME → USS	REGISTER 4.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.10.1	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 4.10.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND USSD 4.10.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with ME"s default foreground and background colour]
12	ME → USS	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND USSD 4.10.1	

PROACTIVE COMMAND: SEND USSD 4.10.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Text Attribute 1"

USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"
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	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.10.2

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Text Attribute 2"
USSD String
Data coding scheme: 7-bit default, no message class
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1^{E}	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.10.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result

General Result: Command performed successfully
Text String
Data coding scheme: 7-bit default, no message class
String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.12.5 SEND USSD (UCS2 display in Chinese)

27.22.4.12.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.
- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in:
ISO/IEC 10646 [17].

27.22.4.12.5.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.5.4 Method of test

27.22.4.12.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.5.4.2 Procedure

Expected Sequence 5.1 (SEND USSD, 7-bit data, successful, UCS2 text in Chinese)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 5.1.1	
4	ME → USER	Display "你好"	["Hello" in Chinese]
5	ME → USS	REGISTER 5.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 5.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND USSD 5.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND USSD
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha Identifier
    Data coding scheme: UCS2 (16bit)
    Text: "你好"
USSD String
    Data coding scheme: 7-bit default, no message class
    USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	4B	81	03	01	12	00	82	02	81	83	85
	05	80	4F	60	59	7D	8A	39	F0	41	E1	90
	58	34	1E	91	49	E5	92	D9	74	3E	A1	51
	E9	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93
	CB	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E
	9F	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A
	CD	76	C3	E5	60							

REGISTER 5.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT
    USSD-DataCodingScheme:
        - 7-bit default, no message class
    USSD String:
        - "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

Coding	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 5.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
  USSD-DataCodingScheme:
    - 7-bit default, no message class
  USSD String:
    - "USSD string received from SS"

Coding:

Coding	30	1E	04	01	00	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 5.1.1

Logically:

Command details	
Command number:	1
Command type:	SEND USSD
Command qualifier:	"00"
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully
Text String	
Data coding scheme:	7-bit default, no message class
String:	"USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.5.5 Test requirement

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

27.22.4.12.6 SEND USSD (UCS2 display in Katakana)

27.22.4.12.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.
- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in:
ISO/IEC 10646 [17].

27.22.4.12.6.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.6.4 Method of test

27.22.4.12.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.6.4.2 Procedure

Expected Sequence 6.1 (SEND USSD, 7-bit data, successful, UCS2 text in Katakana)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND USSD 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND USSD 6.1.1	
4	ME → USER	Display "ル"	[Character " in Katakana]
5	ME → USS	REGISTER 6.1	
6	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 6.1	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND USSD 6.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND USSD 6.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND USSD
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
Alpha Identifier
  Data coding scheme: UCS2 (16bit)
  Text: "ル"
USSD String
  Data coding scheme: 7-bit default, no message class
  USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	49	81	03	01	12	00	82	02	81	83	85
	03	80	30	EB	8A	39	F0	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

REGISTER 6.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT
  USSD-DataCodingScheme:
    - 7-bit default, no message class
  USSD String:
    - "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

Coding	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1E	91	49	E5	92	D9	74	3E	A1	51	E9	94
	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB	E6
	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F	D3
	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD	76
	C3	E5	60									

RELEASE COMPLETE (SS RETURN RESULT) 6.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
  USSD-DataCodingScheme:
    - 7-bit default, no message class
  USSD String:
    - "USSD string received from SS"

Coding:

Coding	30	1E	04	01	00	04	19	D5	E9	94	08	9A
	D3	E5	69	F7	19	24	2F	8F	CB	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 6.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND USSD
  Command qualifier: "00"
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
Text String
  Data coding scheme: 7-bit default, no message class
  String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1A	00	D5	E9	94	08	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	CB	DF	6D	D0	74	0A				

27.22.4.12.6.5 Test requirement

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

27.22.4.13 SET UP CALL

27.22.4.13.1 SET UP CALL (normal)

27.22.4.13.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.1.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

27.22.4.13.1.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.1.4 Method of test

27.22.4.13.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.1.4.2 Procedure

Expected Sequence 1.1 (SET UP CALL, call confirmed by the user and connected)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.1.1	
4	ME → USER	ME displays "Not busy" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456"	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 1.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns to idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Not busy"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string "012340123456p1p2"

Coding:

BER-TLV:	D0	1E	81	03	01	10	00	82	02	81	83	85
	08	4E	6F	74	20	62	75	73	79	86	09	91
	10	32	04	21	43	65	1C	2C				

TERMINAL RESPONSE: SET UP CALL 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

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

Expected Sequence 1.2 (SET UP CALL, call rejected by the user)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.1.1	
4	ME → USER	ME displays "Not busy" during the user confirmation phase	
5	USER → ME	The user rejects the set up call	[user rejects the call]
6	ME → UICC	TERMINAL RESPONSE 1.2.1	[User did not accept call set-up request]
7	ME → USER	The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 1.2.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: User did not accept the proactive command

Coding:

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

Expected Sequence 1.3void

Expected Sequence 1.4 (SET UP CALL, putting all other calls on hold, ME busy)

ME is busy on a call

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.4.1	[putting all other calls on hold]
4	ME → USER	ME displays "On hold" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → USS	The active call is put on hold	
7	ME→USS	The ME attempts to set up a call to "+012340123456"	
8	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
9	ME → UICC	TERMINAL RESPONSE 1.4.1	[Command performed successfully]
10	USER → ME	The user ends the call after 10 s. The ME retrieves the previous call automatically or on request of the user.	

PROACTIVE COMMAND: SET UP CALL 1.4.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: putting all other calls on hold

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "On hold"

Address
- TON: International
- NPI: ISDN / telephone numbering plan
- Dialling number string "012340123456p1p2"

Coding:

BER-TLV:	D0	1D	81	03	01	10	02	82	02	81	83	85
	07	4F	6E	20	68	6F	6C	64	86	09	91	10
	32	04	21	43	65	1C	2C					

TERMINAL RESPONSE: SET UP CALL 1.4.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: putting all other calls on hold

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

Result
- General Result: Command performed successfully

Coding:

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

Expected Sequence 1.5 (SET UP CALL, disconnecting all other calls, ME busy)

ME is busy on a call

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1	[disconnecting all other calls]
4	ME → USER	ME displays "Disconnect" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → USS	The ME disconnects the active call	
7	ME→USS	The ME attempts to set up a call to "+012340123456"	
8	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
9	ME → UICC	TERMINAL RESPONSE 1.5.1	[Command performed successfully]
10	USER → ME	The user ends the call after 10 s.	

PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: disconnecting all other calls

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "Disconnect"

Address
- TON: International
- NPI: ISDN / telephone numbering plan
- Dialling number string "012340123456p1p2"

Coding:

BER-TLV:	D0	20	81	03	01	10	04	82	02	81	83	85
	0A	44	69	73	63	6F	6^E	6^E	65	63	74	86
	09	91	10	32	04	21	43	65	1C	2C		

TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: putting all other calls on hold

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

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	04	82	02	82	81	83	01	00

Expected Sequence 1.6 (SET UP CALL, only if not currently busy on another call, ME busy)

ME is busy on a call

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.1.1	[only if not currently busy on another call]
4	ME → UICC	TERMINAL RESPONSE 1.6.1	[ME currently unable to process command]

TERMINAL RESPONSE: SET UP CALL 1.6.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: ME currently unable to process command
Additional Information: ME currently busy on call

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	02	20
	02											

Expected Sequence 1.7 (SET UP CALL, putting all other calls on hold, call hold is not allowed)

ME is busy on a call. The USS shall be configured to not allow Call Hold.

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.4.1	[putting all other calls on hold]
4	ME → USER	ME displays "On hold" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → USS	The ME attempts to put the active call on hold.	
7	USS->ME	The ME receives the HOLD REJECT message from the USS.	[USS sends 'Facility Rejected' as cause value]
8	ME → UICC	TERMINAL RESPONSE 1.7.1A OR TERMINAL RESPONSE 1.7.1B	[Network currently unable to process command] [Option A shall apply only from R99 to Rel-6, whereas option B is applicable in all releases]

TERMINAL RESPONSE: SET UP CALL 1.7.1A

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: putting all other calls on hold
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Network currently unable to process command
  Additional Information: No specific cause can be given

Coding:

BER-TLV:	81	03	01	10	02	82	02	82	81	83	02	21
	00											

TERMINAL RESPONSE: SET UP CALL 1.7.1B

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: putting all other calls on hold
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Network currently unable to process command
  Additional Information: Facility Rejected

Coding:

BER-TLV:	81	03	01	10	02	82	02	82	81	83	02	21
	9D											

Expected Sequence 1.8 (SET UP CALL, Capability configuration)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.8.1	[Capability configuration parameters: full rate support]
4	ME → USER	ME displays "Capability config" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456" using the capability configuration parameters supplied by UICC	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 1.8.1	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.8.1

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: if not busy on another call
Device identities
  Source device: UICC
  Destination device: Network
  Alpha identifier: "Capability config"
Address
  TON: International
  NPI: ISDN / telephone numbering plan
  Dialling number string "012340123456p1p2"
Capability configuration parameters
  Information transfer cap: full rate support only MS

Coding:

BER-TLV:	D0	2B	81	03	01	10	00	82	02	81	83	85
	11	43	61	70	61	62	69	6C	69	74	79	20
	63	6F	6E	66	69	67	86	09	91	10	32	04
	21	43	65	1C	2C	87	02	01	A0			

TERMINAL RESPONSE: SET UP CALL 1.8.1

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: if not busy on another call
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully

Coding:

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

Expected Sequence 1.9 (SET UP CALL, max dialling number string, no alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND SET UP CALL 1.9.1	[dialling number string, no alpha identifier]
4	USER → ME	The user confirms the set up call	[user confirmation]
5	ME→USS	The ME attempts to set up a call to "+012345678901234567890123456789 01"	
6	USS → ME	The ME receives the CONNECT message from the USS.	
7	ME → UICC	TERMINAL RESPONSE 1.9.1	[Command performed successfully]
8	USER → ME	The user ends the call The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.9.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call with redial
Device identities
    Source device: UICC
    Destination device: Network
Address
    TON: International
    NPI: ISDN / telephone numbering plan
Dialling number string: "0123456789012345678901234567890 1"

Coding:

BER-TLV:	D0	1C	81	03	01	10	01	82	02	81	83	86
	11	91	10	32	54	76	98	10	32	54	76	98
	10	32	54	76	98	10						

TERMINAL RESPONSE: SET UP CALL 1.9.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call with redial
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

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

Expected Sequence 1.10 (SET UP CALL,256 octets length, long first alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.10.1	[alpha identifier]
4	ME → USER	ME displays "Three types are defined: - set up a call, but only if not currently busy on another call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, " during the user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+01"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 1.10.1	[Command performed successfully]
9	USER → ME	The user ends the call The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.10.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call with redial

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "Three types are defined: - set up a call, but only if not currently busy on another call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, "

Address
- TON: International
- NPI: ISDN / telephone numbering plan
- Dialling number string: "01"

Coding:

BER-TLV:	D0	81	FD	81	03	01	10	01	82	02	81	83
	85	81	ED	54	68	72	65	65	20	74	79	70
	65	73	20	61	72	65	20	64	65	66	69	6E
	65	64	3A	20	2D	20	73	65	74	20	75	70
	20	61	20	63	61	6C	6C	2C	20	62	75	74
	20	6F	6E	6C	79	20	69	66	20	6E	6F	74
	20	63	75	72	72	65	6E	74	6C	79	20	62
	75	73	79	20	6F	6E	20	61	6E	6F	74	68
	65	72	20	63	61	6C	6C	3B	20	2D	20	73
	65	74	20	75	70	20	61	20	63	61	6C	6C
	2C	20	70	75	74	74	69	6E	67	20	61	6C
	6C	20	6F	74	68	65	72	20	63	61	6C	6C
	73	20	28	69	66	20	61	6E	79	29	20	6F
	6E	20	68	6F	6C	64	3B	20	2D	20	73	65
	74	20	75	70	20	61	20	63	61	6C	6C	2C
	20	64	69	73	63	6F	6E	6E	65	63	74	69
	6E	67	20	61	6C	6C	20	6F	74	68	65	72
	20	63	61	6C	6C	73	20	28	69	66	20	61
	6E	79	29	20	66	69	72	73	74	2E	20	46
	6F	72	20	65	61	63	68	20	6F	66	20	74
	68	65	73	65	20	74	79	70	65	73	2C	20
	86	02	91	10								

TERMINAL RESPONSE: SET UP CALL 1.10.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call with redial

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

Result
- General Result: Command performed successfully

Coding:

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

Expected Sequence 1.11A (SET UP CALL, Called party subaddress, command performed successfully)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.11.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.11.1	[set up a call with called party subaddress]
4	ME → USER	ME displays "Called party" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456" with the called party subaddress information	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 1.11.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s The ME returns in idle mode.	

Expected Sequence 1.11B (SET UP CALL, Called party subaddress, ME not supporting the called party subaddress)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.11.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.11.1	[set up a call with called party subaddress]
4	ME → UICC	TERMINAL RESPONSE 1.11.1B	[beyond ME's capabilities]

PROACTIVE COMMAND: SET UP CALL 1.11.1

Logically:

- Command details
    - Command number: 1
    - Command type: SET UP CALL
    - Command qualifier: if not busy on another call
- Device identities
    - Source device: UICC
    - Destination device: Network
    - Alpha identifier: "Called party"
- Address
    - TON: International
    - NPI: ISDN / telephone numbering plan
    - Dialling number string: "012340123456p1p2"
- Called party subaddress
    - Type of subaddress: NSAP (X.213 / ISO 8348 AD2)
    - Odd / even indicator: even number of address signals
    - Subaddress information: AFI, 95, 95, 95, 95, 95

Coding:

BER-TLV:	D0	2B	81	03	01	10	00	82	02	81	83	85
	0C	43	61	6C	6C	65	64	20	70	61	72	74
	79	86	09	91	10	32	04	21	43	65	1C	2C
	88	07	80	50	95	95	95	95	95			

TERMINAL RESPONSE: SET UP CALL 1.11.1A

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: if not busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: SET UP CALL 1.11.1B

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: if not busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Beyond ME's capabilities

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	30

Expected Sequence 1.12 (SET UP CALL, maximum duration for the redial mechanism)

The USS shall be configured such that call set up requests will be rejected with cause "User Busy".

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.12.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.12.1	[only if not currently busy on another call with redial]
4	ME → USER	ME displays "Duration" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → USS	ME attempts to set up a call to "+012340123456" . It stops its attempts after 10 seconds.	[redial mechanism with maximum duration of 10 seconds]]
7	ME → UICC	TERMINAL RESPONSE 1.12.1	[network currently unable to process command]
8	ME → USER	The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.12.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL

Command qualifier: only if not currently busy on another call with redial
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Duration"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string: "012340123456p1p2"
Duration
Unit: Seconds
Interval: 10

Coding:

BER-TLV:	D0	22	81	03	01	10	01	82	02	81	83	85
	08	44	75	72	61	74	69	6F	6E	86	09	91
	10	32	04	21	43	65	1C	2C	84	02	01	0A

TERMINAL RESPONSE: SET UP CALL 1.12.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call with redial
Device identities
Source device: ME
Destination device: UICC
Result
General Result: network currently unable to process command
Additional Information: User Busy

Coding:

BER-TLV:	81	03	01	10	01	82	02	82	81	83	02	21
	91											

27.22.4.13.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.12.

27.22.4.13.2 SET UP CALL (second alpha identifier)

27.22.4.13.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.2.2 Conformance requirement

Same as clause 27.22.4.13.2.1.

27.22.4.13.2.3 Test purpose

To verify that the ME accepts a Proactive Command - Set Up Call, displays the alpha identifiers to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.2.4 Method of test

27.22.4.13.2.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and is in updated idle mode on the USS.

27.22.4.13.2.4.2 Procedure

Expected Sequence 2.1 (SET UP CALL, two alpha identifiers)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 2.1.1	
4	ME → USER	ME displays "CONFIRMATION" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL"	[second alpha identifier]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 2.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 2.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "CONFIRMATION"

Address
- TON: International
- NPI: ISDN / telephone numbering plan
- Dialling number string "012340123456p1p2"
- Alpha Identifier (call set up phase): "CALL"

Coding:

BER-TLV:	D0	28	81	03	01	10	00	82	02	81	83	85
	0C	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	86	09	91	10	32	04	21	43	65	1C	2C
	85	04	43	41	4C	4C						

TERMINAL RESPONSE: SET UP CALL 2.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

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

27.22.4.13.2.5 Test requirement

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

27.22.4.13.3 SET UP CALL (display of icons)

27.22.4.13.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.3.2 Conformance requirement

27.22.4.13.3.3 Test purpose

To verify that the ME accepts a Proactive Set Up Call , displays the message or icon to the user ,attempts to set up a call to the address, returns the result in the TERMINAL response.

27.22.4.13.3.4 Method of test

27.22.4.13.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and is in updated idle mode on the USS.

27.22.4.13.3.4.2 Procedure

Expected Sequence 3.1A (SET UP CALL, display of basic icon during confirmation phase, not self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.1.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	ME → USER	ME displays "Set up call Icon 3.1.1" and the basic icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456"	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 3.1.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 3.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Set up call Icon 3.1.1"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string "012340123456p1p2"
Icon identifier
    Icon qualifier: icon is not self-explanatory
    Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	30	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6E	20	33	2E	31	2E	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E	02
	01	01										

TERMINAL RESPONSE: SET UP CALL 3.1.1A

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities

Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

Expected Sequence 3.1B (SET UP CALL, display of basic icon during confirmation phase, not self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.1.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	ME → USER	ME displays "Set up call Icon 3.1.1" without the basic icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456"	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 3.1.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.1.1B

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	04

Expected Sequence 3.2A (SET UP CALL, display of basic icon during confirmation phase, self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.2.1	Including icon identifier, icon shall be displayed instead of the first alpha identifier
4	ME → USER	ME displays the basic icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456"	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 3.2.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 3.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "Set up call Icon 3.2.1"

Address
- TON: International
- NPI: ISDN / telephone numbering plan
- Dialling number string "012340123456p1p2"

Icon identifier
- Icon qualifier: icon is self-explanatory
- Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	30	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6^{E}	20	33	2^{E}	32	2^{E}	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E	02
	00	01										

TERMINAL RESPONSE: SET UP CALL 3.2.1A

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call

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

Result
- General Result: Command performed successfully

Coding:

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

Expected Sequence 3.2B (SET UP CALL, display of basic icon during confirmation phase, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.2.1	Including icon identifier, icon shall be displayed instead of the first alpha identifier
4	ME → USER	ME display "Set up call Icon 3.2.1" without the icon	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456"	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 3.2.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.2.1B

Logically:

Command details
	Command number: 1
	Command type: SET UP CALL
	Command qualifier: only if not currently busy on another call
Device identities
	Source device: ME
	Destination device: UICC
Result
	General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	04

Expected Sequence 3.3A (SET UP CALL, display of colour icon during confirmation phase, not self-explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.3.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	ME → USER	ME displays "Set up call Icon 3.3.1" and the colour icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456"	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 3.3.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 3.3.1

Logically:

- Command details
  - Command number: 1
  - Command type: SET UP CALL
  - Command qualifier: only if not currently busy on another call
- Device identities
  - Source device: UICC
  - Destination device: Network
  - Alpha identifier: "Set up call Icon 3.3.1"
- Address
  - TON: International
  - NPI: ISDN / telephone numbering plan
  - Dialling number string "012340123456p1p2"
- Icon identifier
  - Icon qualifier: icon is not self-explanatory
  - Icon identifier: <record 2 in EF IMG>

Coding:

BER-TLV:	D0	30	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6E	20	33	2E	33	2E	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E	02
	01	02										

TERMINAL RESPONSE: SET UP CALL 3.3.1A

Logically:

- Command details
  - Command number: 1
  - Command type: SET UP CALL
  - Command qualifier: only if not currently busy on another call
- Device identities
  - Source device: ME
  - Destination device: UICC
- Result
  - General Result: Command performed successfully

Coding:

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

Expected Sequence 3.3B (SET UP CALL, display of colour icon during confirmation phase, not self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.3.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	ME → USER	ME only display alpha string: " Set up call Icon 3.3.1"	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456"	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 3.3.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.3.1B

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	04

Expected Sequence 3.4A (SET UP CALL, display of self explanatory basic icon during set up call, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.4.1	Including a second alpha identifier and two icons
4	ME → USER	ME displays the basic icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456". The ME displays the basic icon without the text during the set up call.	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 3.4.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 3.4.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call

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

Alpha identifier: "Set up call Icon 3.4.1"

Address
- TON: International
- NPI: ISDN / telephone numbering plan
- Dialling number string "012340123456p1p2"

Icon identifier
- Icon qualifier: icon is self-explanatory
- Icon identifier: <record 1 in EF IMG>

Alpha identifier: "Set up call Icon 3.4.2"

Icon identifier
- Icon qualifier: icon is self-explanatory
- Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	4C	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6E	20	33	2E	34	2E	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E	02
	00	01	85	16	53	65	74	20	75	70	20	63
	61	6C	6C	20	49	63	6F	6E	20	33	2E	34
	2E	32	9E	02	00	01						

TERMINAL RESPONSE: SET UP CALL 3.4.1A

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

Expected Sequence 3.4B (SET UP CALL, display of self explanatory basic icon during set up call, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 3.4.1	Including a second alpha identifier and two icons
4	ME → USER	ME displays "Set up call Icon 3.4.1" without the icon	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "Set up call Icon 3.4.2" without the icon during the set up call.	
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 3.4.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.4.1B

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	04

27.22.4.13.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1A to 3.4B.

27.22.4.13.4 SET UP CALL (support of Text Attribute)

27.22.4.13.4.1 SET UP CALL (support of Text Attribute – Left Alignment)

27.22.4.13.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.1.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the left alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.1.4 Method of test

27.22.4.13.4.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.1.4.2 Procedure

Expected Sequence 4.1 (SET UP CALL, Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.1.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with left alignment]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with left alignment]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 4.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.1.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.1.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[User confirmation shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
15	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2"	[Second alpha identifier shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
16	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
17	ME → UICC	TERMINAL RESPONSE 4.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 18 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "CONFIRMATION 1"
Address
    TON: International

NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 1"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0^E	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.1.2

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 2"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase):"CALL 2"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32		

TERMINAL RESPONSE: SET UP CALL 4.1.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.1.5 Test requirement

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

27.22.4.13.4.2 SET UP CALL (support of Text Attribute – Center Alignment)

27.22.4.13.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.2.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the center alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.2.4 Method of test

27.22.4.13.4.2.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.2.4.2 Procedure

Expected Sequence 4.2 (SET UP CALL, Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.2.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with center alignment]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with center alignment]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 4.2.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.2.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.2.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[User confirmation shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
15	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2"	[Second alpha identifier shall be formatted without centert alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
16	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
17	ME → UICC	TERMINAL RESPONSE 4.2.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.2.1

Logically:

Command details

Command number:	1
Command type:	SET UP CALL
Command qualifier:	only if not currently busy on another call

Device identities

Source device:	UICC
Destination device:	Network
Alpha identifier:	"CONFIRMATION 1"

Address

TON:	International

NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 1"
Text Attribute (user confirmation phase)
Formatting position: 0
Formatting length: 14
Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^{E}	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0^{E}	01	B4	D0	04	00	06	01	B4		

PROACTIVE COMMAND: SET UP CALL 4.2.2

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 2"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase):"CALL 2"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32		

TERMINAL RESPONSE: SET UP CALL 4.2.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.13.4.3 SET UP CALL (support of Text Attribute – Right Alignment)

27.22.4.13.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.3.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the right alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.3.4 Method of test

27.22.4.13.4.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.3.4.2 Procedure

Expected Sequence 4.3 (SET UP CALL, Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.3.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with right alignment]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with right alignment]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 4.3.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.3.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.3.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[User confirmation shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
15	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2"	[Second alpha identifier shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/14, no alignment change will take place]
16	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
17	ME → UICC	TERMINAL RESPONSE 4.3.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.3.1

Logically:

Command details	
Command number:	1
Command type:	SET UP CALL
Command qualifier:	only if not currently busy on another call
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"CONFIRMATION 1"
Address	
TON:	International

NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 1"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^{E}	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0^{E}	02	B4	D0	04	00	06	02	B4		

PROACTIVE COMMAND: SET UP CALL 4.3.2

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 2"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase):"CALL 2"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32		

TERMINAL RESPONSE: SET UP CALL 4.3.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.13.4.4 SET UP CALL (support of Text Attribute – Large Font Size)

27.22.4.13.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.4.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the large font size text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.4.4 Method of test

27.22.4.13.4.4.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.4.4.2 Procedure

Expected Sequence 4.4 (SET UP CALL, Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.4.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with large font size]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with large font size]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.4.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.4.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with normal font size]
15	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2"	[second alpha identifier is displayed with normal font size]
16	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
17	ME → UICC	TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.4.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.4.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with large font size]
24	ME □USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with large font size]
25	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
26	ME → UICC	TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.4.3	
29	ME → UICC	FETCH	

30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.4.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with normal font size]
33	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3"	[second alpha identifier is displayed with normal font size]
34	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
35	ME → UICC	TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.4.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 1"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 1"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0^E	04	B4	D0	04	00	06	04	B4		

PROACTIVE COMMAND: SET UP CALL 4.4.2

Logically:

Command details
Command number: 1
Command type: SET UP CALL

Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 2"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 2"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^{E}	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0^{E}	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.4.3

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 3"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase):"CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.4.1

Logically:

Command details

Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

27.22.4.13.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.13.4.5 SET UP CALL (support of Text Attribute – Small Font Size)

27.22.4.13.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.5.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the small font size text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.4.5 Method of test

27.22.4.13.4.4.5.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.4.5.2 Procedure

Expected Sequence 4.5 (SET UP CALL, Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.5.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with small font size]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with small font size]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.5.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.5.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with normal font size]
15	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2"	[second alpha identifier is displayed with normal font size]
16	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
17	ME → UICC	TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.5.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.5.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with small font size]
24	ME □USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with small font size]
25	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
26	ME → UICC	TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.5.3	
29	ME → UICC	FETCH	

30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.5.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with normal font size]
33	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3"	[second alpha identifier is displayed with normal font size]
34	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
35	ME → UICC	TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.5.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "CONFIRMATION 1"

Address
- TON: International
- NPI: ISDN / telephone numbering plan
- Dialling number string "012340123456p1p2"
- Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)
- 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

Text Attribute (call set up phase)
- 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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0^E	08	B4	D0	04	00	06	08	B4		

PROACTIVE COMMAND: SET UP CALL 4.5.2

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL

Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 2"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 2"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^{E}	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0^{E}	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.5.3

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 3"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.5.1

Logically:

Command details

Command number:	1
Command type:	SET UP CALL
Command qualifier:	only if not currently busy on another call
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully

Coding:

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

27.22.4.13.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.13.4.6 SET UP CALL (support of Text Attribute – Bold On)

27.22.4.13.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.6.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the bold text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.6.4 Method of test

27.22.4.13.4.6.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.6.4.2 Procedure

Expected Sequence 4.6 (SET UP CALL, Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.6.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with bold on]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with bold on]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.6.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.6.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with bold off]
15	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2"	[second alpha identifier is displayed with bold off]
16	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
17	ME → UICC	TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.6.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with bold on]
24	ME □USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with bold on]
25	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
26	ME → UICC	TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3	
29	ME → UICC	FETCH	

30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.6.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with bold off]
33	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3"	[second alpha identifier is displayed with bold off]
34	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
35	ME → UICC	TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.6.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 1"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 1"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^{E}	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0^{E}	10	B4	D0	04	00	06	10	B4		

PROACTIVE COMMAND: SET UP CALL 4.6.2

Logically:

Command details
Command number: 1
Command type: SET UP CALL

Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 2"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 2"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^{E}	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0^{E}	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.6.3

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 3"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.6.1

Logically:

Command details

Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

27.22.4.13.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.13.4.7 SET UP CALL (support of Text Attribute – Italic On)

27.22.4.13.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.7.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the italic text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.7.4 Method of test

27.22.4.13.4.7.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.7.4.2 Procedure

Expected Sequence 4.7 (SET UP CALL, Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.7.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with italic on]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with italic on]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.7.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.7.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with italic off]
15	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2"	[second alpha identifier is displayed with italic off]
16	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
17	ME → UICC	TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.7.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.7.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with italic on]
24	ME □USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with italic on]
25	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
26	ME → UICC	TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.7.3	
29	ME → UICC	FETCH	

30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.7.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with italic off]
33	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3"	[second alpha identifier is displayed with italic off]
34	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
35	ME → UICC	TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.7.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 1"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 1"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^{E}	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0^{E}	20	B4	D0	04	00	06	20	B4		

PROACTIVE COMMAND: SET UP CALL 4.7.2

Logically:

Command details
Command number: 1
Command type: SET UP CALL

Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 2"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 2"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^{E}	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0^{E}	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.7.3

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 3"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.7.1

Logically:

Command details

Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

27.22.4.13.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.13.4.8 SET UP CALL (support of Text Attribute – Underline On)

27.22.4.13.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.8.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the underline text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.8.4 Method of test

27.22.4.13.4.8.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.8.4.2 Procedure

Expected Sequence 4.8 (SET UP CALL, Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.8.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with underline on]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with underline on]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.8.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.8.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with underline off]
15	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2"	[second alpha identifier is displayed with underline off]
16	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
17	ME → UICC	TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.8.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.8.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with underline on]
24	ME □USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with underline on]
25	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
26	ME → UICC	TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.8.3	
29	ME → UICC	FETCH	

30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.8.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with underline off]
33	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3"	[second alpha identifier is displayed with Undeline off]
34	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
35	ME → UICC	TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.8.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 1"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 1"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^{E}	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0^{E}	40	B4	D0	04	00	06	40	B4		

PROACTIVE COMMAND: SET UP CALL 4.8.2

Logically:

Command details
Command number: 1
Command type: SET UP CALL

Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 2"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 2"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^{E}	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0^{E}	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.8.3

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 3"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.8.1

Logically:

Command details

Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

27.22.4.13.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.13.4.9 SET UP CALL (support of Text Attribute – Strikethrough On)

27.22.4.13.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.9.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the strikethrough text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.9.4 Method of test

27.22.4.13.4.9.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.9.4.2 Procedure

Expected Sequence 4.9 (SET UP CALL, Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.9.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with strikethrough on]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with strikethrough on]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.9.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.9.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with strikethrough off]
15	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2"	[second alpha identifier is displayed with strikethrough off]
16	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
17	ME → UICC	TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.9.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.9.1	
22	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	USER → ME	The user confirms the set up call	[user confirmation is displayed with strikethrough on]
24	ME □USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with strikethrough on]
25	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
26	ME → UICC	TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
27	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.9.3	
29	ME → UICC	FETCH	

30	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.9.3	
31	ME → USER	ME displays "CONFIRMATION 3" during the user confirmation phase	
32	USER → ME	The user confirms the set up call	[user confirmation is displayed with strikethrough off]
33	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3"	[second alpha identifier is displayed with strikethrough off]
34	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
35	ME → UICC	TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
36	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.9.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "CONFIRMATION 1"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string "012340123456p1p2"
    Alpha Identifier (call set up phase): "CALL 1"
Text Attribute (user confirmation phase)
        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
Text Attribute (call set up phase)
        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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0^E	80	B4	D0	04	00	06	80	B4		

PROACTIVE COMMAND: SET UP CALL 4.9.2

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL

Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 2"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 2"
Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
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	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32	D0	04
	00	0^E	00	B4	D0	04	00	06	00	B4		

PROACTIVE COMMAND: SET UP CALL 4.9.3

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 3"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 3"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	33	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	33		

TERMINAL RESPONSE: SET UP CALL 4.9.1

Logically:

Command details

Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

27.22.4.13.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.13.4.10 SET UP CALL (support of Text Attribute – Foreground and Background Colour)

27.22.4.13.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.10.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.10.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the foreground and background colour text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.10.4 Method of test

27.22.4.13.4.10.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.10.4.2 Procedure

Expected Sequence 4.10 (SET UP CALL, Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.10.1	
4	ME → USER	ME displays "CONFIRMATION 1" during the user confirmation phase	
5	USER → ME	The user confirms the set up call	[user confirmation is displayed with foreground and background colour according to Text Attribute configuration]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"	[second alpha identifier is displayed with foreground and background colour according to Text Attribute configuration]
7	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 4.10.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 4.10.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP CALL 4.10.2	
13	ME → USER	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	USER → ME	The user confirms the set up call	[user confirmation is displayed with ME"s default foreground and background colour]
15	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2"	[second alpha identifier is displayed with ME"s default foreground and background colour]
16	USS → ME	The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
17	ME → UICC	TERMINAL RESPONSE 4.10.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
18	USER → ME	The user ends the call after 10 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 4.10.1

Logically:

Command details	
Command number:	1
Command type:	SET UP CALL
Command qualifier:	only if not currently busy on another call
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"CONFIRMATION 1"
Address	
TON:	International
NPI:	ISDN / telephone numbering plan
Dialling number string	"012340123456p1p2"
Alpha Identifier (call set up phase):	"CALL 1"

Text Attribute (user confirmation phase)
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
Text Attribute (call set up phase)
Formatting position: 0
Formatting length: 6
Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off
Colour: Bright Yellow Foreground, Dark Green Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4^E	20	31	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	31	D0	04
	00	0^E	00	B4	D0	04	00	06	00	4B		

PROACTIVE COMMAND: SET UP CALL 4.10.2

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "CONFIRMATION 2"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456p1p2"
Alpha Identifier (call set up phase): "CALL 2"

Coding:

BER-TLV:	D0	2C	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	4F
	4E	20	32	86	09	91	10	32	04	21	43	65
	1C	2C	85	06	43	41	4C	4C	20	32		

TERMINAL RESPONSE: SET UP CALL 4.10.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

27.22.4.13.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.13.5 SET UP CALL (UCS2 Display in ***Cyrillic***)

27.22.4.13.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.5.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

27.22.4.13.5.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.5.4 Method of test

27.22.4.13.5.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.5.4.2 Procedure

Expected Sequence 5.1 (SET UP CALL with UCS2 – Cyrillic Characters, call confirmed by the user and connected)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 5.1.1	
4	ME → USER	ME displays "ЗДРАВСТВУЙТЕ" during user confirmation phase.	["ЗДРАВСТВУЙТЕ": 'Hello' in Russian]
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 5.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns to idle mode.	

PROACTIVE COMMAND: SET UP CALL 5.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "ЗДРАВСТВУЙТЕ"
Address
    TON: International
    NPI: ISDN / telephone numbering plan
    Dialling number string "012340123456"

Coding:

BER-TLV:	D0	2D	81	03	01	10	00	82	02	81	83	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	86	07	91	10	32	04	21	43	65	

TERMINAL RESPONSE: SET UP CALL 5.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

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

Expected Sequence 5.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Cyrillic Characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 5.2.1	
4	ME → USER	ME displays "ЗДРАВСТВУЙТЕ1" during the user confirmation phase	['ЗДРАВСТВУЙТЕ1' : 'Hello1' in Russian]
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "ЗДРАВСТВУЙТЕ2"	[second alpha identifier] ['ЗДРАВСТВУЙТЕ2' : 'Hello2' in Russian]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 5.2.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 5.2.1

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: only if not currently busy on another call
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: " ЗДРАВСТВУЙТЕ1"
Address
  TON: International
  NPI: ISDN / telephone numbering plan
  Dialling number string "012340123456"
Alpha Identifier (call set up phase): " ЗДРАВСТВУЙТЕ2"

Coding:

BER-TLV:	D0	4C	81	03	01	10	00	82	02	81	83	85
	1B	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	86	07	91	10	32	04	21	43
	65	85	1B	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						

TERMINAL RESPONSE: SET UP CALL 5.2.1

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: only if not currently busy on another call

Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

27.22.4.13.5.5 Test requirement

The ME shall operate in the manner defined in expected sequences 5.1 to 5.2.

27.22.4.13.6 SET UP CALL (UCS2 Display in Chinese)

27.22.4.13.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.6.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.13.6.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.6.4 Method of test

27.22.4.13.6.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.6.4.2 Procedure

Expected Sequence 6.1 (SET UP CALL with UCS2 – Chinese characters, call confirmed by the user and connected)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 6.1.1	
4	ME → USER	ME displays "不忙" during user confirmation phase.	['不忙' : 'Not Busy' in Chinese]
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 6.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns to idle mode.	

PROACTIVE COMMAND: SET UP CALL 6.1.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "不忙"
Address
TON: International
NPI: ISDN / telephone numbering plan
Dialling number string "012340123456"

Coding:

BER-TLV:	D0	19	81	03	01	10	00	82	02	81	83	85
	05	80	4E	0D	5F	D9	86	07	91	10	32	04
	21	43	65									

TERMINAL RESPONSE: SET UP CALL 6.1.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

Expected Sequence 6.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Chinese characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 6.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 6.2.1	
4	ME → USER	ME displays "确定" during the user confirmation phase	['确定' : 'Confirmation' in Chinese]
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "打电话"	[second alpha identifier] ['打电话' : 'CALL' in Chinese]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 6.2.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 6.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call

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

Alpha identifier: "确定"

Address
- TON: International
- NPI: ISDN / telephone numbering plan
- Dialling number string "012340123456"

Alpha Identifier (call set up phase): "打电话"

Coding:

BER-TLV:	D0	22	81	03	01	10	00	82	02	81	83	85
	05	80	78	6E	5B	9A	86	07	91	10	32	04
	21	43	65	85	07	80	62	53	75	35	8B	DD

TERMINAL RESPONSE: SET UP CALL 6.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call

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

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.6.5 Test requirement

The ME shall operate in the manner defined in expected sequences 6.1 to 6.2.

27.22.4.13.7 SET UP CALL (UCS2 Display in Katakana)

27.22.4.13.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.7.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.13.7.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.7.4 Method of test

27.22.4.13.7.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.7.4.2 Procedure

Expected Sequence 7.1 (SET UP CALL with UCS2 – Katakana characters, call confirmed by the user and connected)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 7.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 7.1.1	
4	ME → USER	ME displays "ル" during user confirmation phase.	[Character in Katakana]
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456"	
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 7.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns to idle mode.	

PROACTIVE COMMAND: SET UP CALL 7.1.1

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: only if not currently busy on another call
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "ル"
Address
  TON: International
  NPI: ISDN / telephone numbering plan
  Dialling number string "012340123456"

Coding:

BER-TLV:	D0	17	81	03	01	10	00	82	02	81	83	85
	03	80	30	EB	86	07	91	10	32	04	21	43
	65											

TERMINAL RESPONSE: SET UP CALL 7.1.1

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: only if not currently busy on another call
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully

Coding:

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

Expected Sequence 7.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Katakana characters)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 7.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 7.2.1	
4	ME → USER	ME displays "ル1" during the user confirmation phase	[Character in Katakana]
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → USS	The ME attempts to set up a call to "+012340123456". The ME displays "ル2".	[second alpha identifier] [Character in Katakana]
7	USS → ME	The ME receives the CONNECT message from the USS.	
8	ME → UICC	TERMINAL RESPONSE 7.2.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 7.2.1

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: only if not currently busy on another call
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "ル1"
Address
  TON: International
  NPI: ISDN / telephone numbering plan
  Dialling number string "012340123456"
Alpha Identifier (call set up phase): "ル2"

Coding:

BER-TLV:	D0	20	81	03	01	10	00	82	02	81	83	85
	05	80	30	EB	00	31	86	07	91	10	32	04
	21	43	65	85	05	80	30	EB	00	32		

TERMINAL RESPONSE: SET UP CALL 7.2.1

Logically:

Command details
  Command number: 1
  Command type: SET UP CALL
  Command qualifier: only if not currently busy on another call
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully

Coding:

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

27.22.4.13.7.5 Test requirement

The ME shall operate in the manner defined in expected sequences 7.1 to 7.2.

27.22.4.14 POLLING OFF

27.22.4.14.1 Definition and applicability

See clause 3.2.2.

27.22.4.14.2 Conformance requirement

The ME shall support the POLLING OFF as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.14, clause 6.6.14, clause 6.8, clause 6.11, clause 8.6 and clause 8.7.

27.22.4.14.3 Test purpose

To verify that the ME cancels the effect of any previous POLL INTERVAL commands and does not effect UICC presence detection.

27.22.4.14.4 Method of test

27.22.4.14.4.1 Initial conditions

The ME is connected to the USIM Simulator and to the USS.

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

27.22.4.14.4.2 Procedure

Expected Sequence 1.1 (POLLING OFF)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: POLL INTERVAL 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: POLL INTERVAL 1.1.1	Interval = 1 min
4	ME → UICC	TERMINAL RESPONSE: POLL INTERVAL 1.1.1 A or TERMINAL RESPONSE: POLL INTERVAL 1.1.1B	[command performed successfully, duration depends on the ME"s capabilities]
5	UICC → ME	PROACTIVE COMMAND PENDING: POLLING OFF 1.1.2	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: POLLING OFF 1.1.2	
8	ME → UICC	TERMINAL RESPONSE: POLLING OFF 1.1.2	[command performed successfully]
9	USER → ME	Call to be set up	
10	ME → UICC	Periods of inactivity on the UICC-ME interfaceshall not exceed 30 seconds	
11	USER → ME	Call to be terminated 3 minutes after call setup	

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: ME
Duration
    Time unit: Minutes
    Time interval: 1

Coding:

BER-TLV:	D0	0D	81	03	01	03	00	82	02	81	82	84
	02	00	01									

TERMINAL RESPONSE: POLL INTERVAL 1.1.1A

Logically:

Command details
    Command number: 1
    Command type: POLL INTERVAL
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Duration
Time unit: Minutes
Time interval: 1

Coding:

BER-TLV:	81	03	01	03	00	82	02	82	81	83	01	00
	84	02	00	01								

TERMINAL RESPONSE: POLL INTERVAL 1.1.1B

Logically:

Command details
Command number: 1
Command type: POLL INTERVAL
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Duration
Time unit: Seconds
Time interval: 60

Coding:

BER-TLV:	81	03	01	03	00	82	02	82	81	83	01	00
	84	02	01	3C								

Note: If the requested poll interval is not supported by the ME, the ME is allowed to use a different one as stated in TS 31.111 [15], subclause 6.4.6.

PROACTIVE COMMAND: POLLING OFF 1.1.2

Logically:

Command details
Command number: 1
Command type: POLLING OFF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	04	00	82	02	81	82

TERMINAL RESPONSE: POLLING OFF 1.1.2

Logically:

Command details
Command number: 1
Command type: POLLING OFF
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC

Result
General Result: Command performed successfully

Coding:

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

27.22.4.14.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

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 ME shall support the PROVIDE LOCAL INFORMATION facility as defined in:

- TS 31.111 [15] clause 6.4.15.

27.22.4.15.3 Test purpose

To verify that the ME returns the following requested local information within a TERMINAL RESPONSE:

- location information:
  - Mobile Country Code (MCC);
  - Mobile Network Code (MNC);
  - Location Area Code (LAC); and
  - cell ID of the current serving cell;
- the IMEI of the ME;
- the Network Measurement Results and the BCCH channel list;
- the current date, time and time zone;
- the current ME language setting;
- the Timing Advance;
- the Access Technology;
- the IMEISV
- the Search Mode change
- the Battery charge State
- the UTRAN measurements.

if the local information is stored in the ME; 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 ME is connected to the USIM Simulator.

The ME is connected to the USS and has performed the location update procedure.

The UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;

The GERAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;
- Timing advance = 0;
- Neighbour allocations = 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;
- Timing advance = 0;
- Neighbour allocations = 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585.

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

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

Expected sequence 1.3 and 1.6 shall be used on a USS setting up only a GERAN or PCS 1900 cell and expected sequences 1.7 and 1.12 shall be used on a USS setting up only a UTRAN cell.

Expected sequence 1.12 requires 2 UTRA cells on the same frequency and 1.13 requires 2 UTRA cells on different frequencies.

27.22.4.15.4.2 Procedure

Expected Sequence 1.1 (PROVIDE LOCAL INFORMATION, Local Info (MCC, MNC, LAC & Cell ID))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1A or TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1B	[Command performed successfully, MCC MNC LAC and Cell Identity as USS, option A shall apply for 3GPP parameters] [Command performed successfully, MCC MNC LAC and Cell Identity as USS, option B shall apply for PCS1900 parameters]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1

Logically:

Command details
Command number: 1
Command type: PROVIDE LOCAL INFORMATION
Qualifier: "00" Location information (MCC MNC LAC and Cell Identity)
Device identities
Source device: UICC
Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	00	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1A

Logically:

Command details
Command number: 1
Command type: PROVIDE LOCAL INFORMATION
Qualifier: "00" Location information (MCC MNC LAC and Cell Identity)
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Location Information
MCC & MNC: MCC = 001, MNC = 01
Location Area Code: 0001
Cell Identity Value: 0001
Extended Cell Identity Value: RNC-id value (for Rel-4 onwards), see also Note 2

Coding:

BER-TLV:	81	03	01	26	00	82	02	82	81	83	01	00
	93	Note 1	00	F1	10	00	01	00	01	Note 2		

Note 1: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 2: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1B

Logically:

Command details
  Command number: 1
  Command type: PROVIDE LOCAL INFORMATION
  Qualifier: "00" Location information (MCC MNC LAC and Cell Identity)
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
  Location Information
  MCC & MNC: MCC = 001, MNC = 011
  Location Area Code: 0001
  Cell Identity Value: 0001

Coding:

BER-TLV:	81	03	01	26	00	82	02	82	81	83	01	00
	93	07	00	11	10	00	01	00	01			

Expected Sequence 1.2 (PROVIDE LOCAL INFORMATION, IMEI of the ME)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	Identity request	[Identity type = IMEI]
2	ME → USS	Identity response	[Mobile identity = IMEI]
3	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.2.1	
4	ME → UICC	FETCH	
5	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1	
6	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1	[Command performed successfully, IMEI as USS, but spare digit shall be zero when transmitted by the ME]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

Command details
  Command number: 1
  Command type: PROVIDE LOCAL INFORMATION
  Qualifier: "01" IMEI of the ME
Device identities
  Source device: UICC
  Destination device: ME

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 ME
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
IMEI
  IMEI of the ME: The IMEI of the ME

The result coding depends on the Mobile IMEI value as declared in table A.2/23.

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 mobile 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 24.008 [10], clause 10.5.1.

Expected Sequence 1.3 (PROVIDE LOCAL INFORMATION, Network Measurement Results (NMR))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.3.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1	[Command performed successfully, NMR as USS]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.3.1

Logically:

Command details
  Command number: 1
  Command type: PROVIDE LOCAL INFORMATION
  Qualifier: "02" Network Measurement Results
Device identities
  Source device: UICC
  Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	02	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1

The actual values of the measurements are not tested.

Logically:

Command details
  Command number: 1
  Command type: PROVIDE LOCAL INFORMATION
  Qualifier: "02" Network Measurement Results

Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Network Measurement Results RXLEV-FULL-SERVING-CELL=52, BA not used, DTX not used, as an example in the BER-TLV)
    BCCH channel list 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585

Coding:

BER-TLV:	81	03	01	26	02	82	02	82	81	83	01	00
	96	10	34	34	00	00	00	00	00	00	00	00
	00	00	00	00	00	00	9D	0D	8C	63	58	E2
	39	8F	63	F9	06	45	91	A4	90			

Expected Sequence 1.4 (PROVIDE LOCAL INFORMATION, Date, Time, Time Zone)

See ETSI TS 102 384 [26] in subclause 27.22.4.15.4.2, Expected Sequence 1.4.

Expected Sequence 1.5 (PROVIDE LOCAL INFORMATION, Language setting)

See ETSI TS 102 384 [26] in subclause 27.22.4.15.4.2, Expected Sequence 1.5.

Expected Sequence 1.6 (PROVIDE LOCAL INFORMATION, Timing advance)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.6.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.6.1	[Command performed successfully]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.6.1

Logically:

Command details
    Command number: 1
    Command type: PROVIDE LOCAL INFORMATION
    Qualifier: "05" Timing Advance
Device identities
    Source device: UICC
    Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	05	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.6.1

Logically:

Command details
    Command number: 1
    Command type: PROVIDE LOCAL INFORMATION
    Qualifier: "05" Timing Advance
Device identities
    Source device: ME

Destination device: UICC
Result
General Result: Command performed successfully
Timing Advance 2 bytes
ME status: "00" ME is in idle state
Timing Advance: 0

Coding:

BER-TLV:	81	03	01	26	05	82	02	82	81	83	01	00
	AE	02	00	00								

Expected Sequence 1.7 (PROVIDE LOCAL INFORMATION, Access Technology

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.7.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.7.1	[Command performed successfully]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.7.1

Logically:

Command details
Command number: 1
Command type: PROVIDE LOCAL INFORMATION
Qualifier: "06" Access Technology
Device identities
Source device: UICC
Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	06	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.7.1

Logically:

Command details
Command number: 1
Command type: PROVIDE LOCAL INFORMATION
Qualifier: "06" Access Technology
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Access Technology
Technology: UTRAN

Coding:

BER-TLV:	81	03	01	26	06	82	02	82	81	83	01	00
	3F	01	03									

Expected Sequence 1.8 (Void)

Expected Sequence 1.9 (PROVIDE LOCAL INFORMATION, IMEISV of the terminal)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	Identity request	[Identity type = IMEISV]
2	ME → USS	Identity response	[Mobile identity = IMEISV]
3	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.9.1	
4	ME → UICC	FETCH	
5	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.9.1	
6	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.9.1	[Command performed successfully, IMEISV] as USS

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.9.1

Logically:

Command details
    Command number: 1
    Command type: PROVIDE LOCAL INFORMATION
    Qualifier: "08" IMEISV of the ME
Device identities
    Source device: UICC
    Destination device: ME

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 ME
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
IMEISV
    IMEISV of the ME: The IMEISV of the ME

The result coding depends on the ME 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 ME 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 ETSI TS 124.008 [7].

Expected Sequence 1.10 (PROVIDE LOCAL INFORMATION, Search Mode Change)

TBD

Expected Sequence 1.11 (PROVIDE LOCAL INFORMATION, charge state of the battery)

See ETSI TS 102 384 [26] in subclause 27.22.4.15.4.2, Expected Sequence 1.11.

Expected Sequence 1.12 (PROVIDE LOCAL INFORMATION, Intra-Frequency UTRAN Measurements)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.12.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.12.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.12.1	[Command performed successfully]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.12.1

Logically:

Command details
    Command number: 1
    Command type: PROVIDE LOCAL INFORMATION
    Qualifier: "02" Network Measurement Results
Device identities
    Source device: UICC
    Destination device: ME
UTRAN Measurement Qualifier
    UTRAN Measurement Qualifier: "01" Intra-frequency measurements

Coding:

BER-TLV:	D0	0C	81	03	01	26	02	82	02	81	82	69
	01	01										

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.12.1

The actual values of the measurements are not tested.

Logically:

Command details
    Command number: 1
    Command type: PROVIDE LOCAL INFORMATION
    Qualifier: "02" Network Measurement Results
Device identities
    Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Network Measurement Results MEASUREMENT REPORT message intraFreqMeasuredResultsList

Coding:

BER-TLV:	81	03	01	26	02	82	02	82	81	83	01	00
	96	Note 1	80	00	Note 2							

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note2: The remaining bytes shall not be verified.

Expected Sequence 1.13 (PROVIDE LOCAL INFORMATION, Inter-frequency UTRAN Measurements)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.13.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.13.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.13.1	[Command performed successfully]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.13.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "02" Network Measurement Results

Device identities

Source device: UICC

Destination device: ME

UTRAN Measurement Qualifier

UTRAN Measurement Qualifier: "02" Inter-frequency measurements

Coding:

BER-TLV:	D0	0C	81	03	01	26	02	82	02	81	82	69
	01	02										

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.13.1

The actual values of the measurements are not tested.

Logically:

Command details
    Command number: 1
    Command type: PROVIDE LOCAL INFORMATION
    Qualifier: "02" Network Measurement Results
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Network Measurement Results MEASUREMENT REPORT message interFreqMeasuredResultsList

Coding:

BER-TLV:	81	03	01	26	02	82	02	82	81	83	01	00
	96	Note 1	80	11	Note 2							

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note2: The remaining bytes shall not be verified.

27.22.4.15.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.13.

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 ME shall support the Proactive UICC: Set Up Event List facility as defined in:

- TS 31.111 [15] clause 6.4.16 and clause 6.6.16.

Additionally the ME shall support the Event Download: Call Connect and the Event Download: Call Disconnected mechanism as defined in:

- TS 31.111 [15] clause 11.2, clause 11.2.1, clause 11.2.2, clause 11.3, clause 11.3.1 and clause 11.3.2.

27.22.4.16.1.3 Test purpose

To verify that the ME 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 ME has successfully accepted or removed the list of events, it shall send TERMINAL RESPONSE (OK) to the UICC and when the ME is not able to successfully accept or remove the list of events, it shall send TERMINAL RESPONSE (Command beyond ME's capabilities).

27.22.4.16.1.4 Method of test

27.22.4.16.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default with the following exceptions.

Prior to this test the ME 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, Set Up Call Connect Event)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USS → ME	SETUP 1.1.1	[Incoming call alert]
7	USER → ME	User shall accept the incoming call	
8	ME → USS	CONNECT 1.1.1	
9	ME → UICC	ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1.1	[Call Connected Event]
10	UICC → ME	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: ME
Event list
  Event 1: Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

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: ME
  Destination device: UICC
Result
  General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.1.1

Logically:

Transaction identifier
    Ti value: 0 (bit 5-7)
Address
    TON: "Unknown"
    NPI: "ISDN/ telephone numbering plan"
    Dialling number string: "9876"

CONNECT 1.1.1

Logically:

Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 1 (bit 8)

ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1.1

Logically

Event list
    Event 1: Call Connected
Device identities
    Source device: ME
    Destination device: UICC
Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	99	01	01	82	02	82	81	9C	01	80

Expected Sequence 1.2 (SET UP EVENT LIST, Replace Event)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1	[Call Connected and Call Disconnected Events]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.2	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2	[Call Disconnected Event]
8	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2	
9	UICC → ME	PROACTIVE UICC SESSION ENDED	
10	USS → ME	SETUP 1.2.2	[Incoming call alert]
11	USER → ME	User shall accept the incoming call	
12	ME → USS	CONNECT 1.2.2	
13	USS → ME	DISCONNECT 1.2.2	
14	ME → UICC	ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2A or ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2B	[Call Disconnect Event]
15	UICC → ME	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: ME
Event list
    Event 1: Call Connected
    Event 2: Call Disconnected

Coding:

BER-TLV:	D0	0D	81	03	01	05	00	82	02	81	82	99
	02	01	02									

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: ME
    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: ME
Event list
    Event 1: Call Disconnected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	02										

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: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.2.2

Logically:

Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Address
    TON: "Unknown"
    NPI: "ISDN/ telephone numbering plan"
    Dialling number string: "9876"

CONNECT 1.2.2

Logically:

Transaction identifier

Ti value: 0 (bit 5-7)
Ti flag: 1 (bit 8)

DISCONNECT 1.2.2

Logically:

Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Cause
    Value: Normal call clearing

ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2A

Logically:

Event list
    Event 1: Call Disconnected
Device identities
    Source device: Network
    Destination device: UICC
Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Cause
    Value: Normal call clearing

Coding:

BER-TLV:	D6	0E	99	01	02	82	02	83	81	9C	01	00
	9A	02	60	90								

ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2B

Logically:

Event list
    Event 1: Call Disconnected
Device identities
    Source device: Network
    Destination device: UICC
Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Cause
    Value: Normal call clearing

Coding:

BER-TLV:	D6	0E	99	01	02	82	02	83	81	9C	01	00
	9A	02	E0	90								

Expected Sequence 1.3 (SET UP EVENT LIST, Remove Event)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1	[Call Connected Event]
	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1	
4	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.2	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2	[Remove Event]
7	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
10	USS → ME	SETUP 1.3.2	[Incoming call alert]
11	USER → ME	User shall accept the incoming call	
12	ME → USS	CONNECT 1.3.2	
13	ME → UICC	No ENVELOPE: EVENT DOWNLOAD (call connected) sent	
14	USS → ME	DISCONNECT 1.3.2	

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: ME
Event list
    Event 1: Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

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: ME
    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: ME
- 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: ME
- Destination device: UICC

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.3.2

Logically:

Transaction identifier
- Ti value: 0 (bit 5-7)
- Ti flag: 0 (bit 8)

Address
- TON: "Unknown"
- NPI: "ISDN/ telephone numbering plan"
- Dialling number string: "9876"

CONNECT 1.3.2

Logically:

Transaction identifier
- Ti value: 0 (bit 5-7)
- Ti flag: 1 (bit 8)

DISCONNECT 1.3.2

Logically:

Transaction identifier
Ti value: 0 (bit 5-7)
Ti flag: 0 (bit 8)
Cause
Value: Normal call clearing

Expected Sequence 1.4 (SET UP EVENT LIST, Remove Event on ME Power Cycle)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.4.1	[Call Connected Event]
	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.4.1	
4	UICC → ME	PROACTIVE UICC SESSION ENDED	
5	User → ME	Power off ME	
6	User → ME	Power on ME	
7	USS → ME	SETUP 1.4.1	[Incoming call alert]
8	USER → ME	User shall accept the incoming call	
9	ME → USS	CONNECT 1.4.1	
10	ME → UICC	No ENVELOPE: EVENT DOWNLOAD (call connected) sent	
11	USS → ME	DISCONNECT 1.4.1	

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: ME
Event list
Event 1: Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

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: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.4.1

Logically:

Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Address
    TON: "Unknown"
    NPI: "ISDN/ telephone numbering plan"
    Dialling number string: "9876"

CONNECT 1.4.1

Logically:

Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 1 (bit 8)

DISCONNECT 1.4.1

Logically:

Transaction identifier
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Cause
    Value: Normal call clearing

27.22.4.16.1.5 Test requirement

The ME 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 ME shall support the Proactive UICC: Perform Card APDU facility as defined in:

- TS 31.111 [15] clause 6.1, clause 5.2, clause 6.4.17, clause 6.6.17, clause 6.8, clause 8.6, clause 8.7, clause 8.35, clause 8.36 and clause 8.12.9.

Additionally the ME shall support multiple card operation as defined in:

- TS 31.111 [15] clause 6.4.19, clause 6.6.19, clause 6.4.18 and clause 6.6.18.

27.22.4.17.1.3 Test purpose

To verify that the ME 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 ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs 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 ME 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 ME is connected to the USIM Simulator.

The TestSIM is inserted in the additional ME card reader.

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

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

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 USIM 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.17.1.4.2, Expected Sequence 1.1.

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)

See ETSI TS 102 384 [26] in subclause 27.22.4.17.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (PERFORM CARD APDU, card reader 1, card inserted, card powered off)

See ETSI TS 102 384 [26] in subclause 27.22.4.17.1.4.2, Expected Sequence 1.3.

Expected Sequence 1.4 (PERFORM CARD APDU, card reader 1, no card inserted)

See ETSI TS 102 384 [26] in subclause 27.22.4.17.1.4.2, Expected Sequence 1.4.

Expected Sequence 1.5 (PERFORM CARD APDU, card reader 7 (which is not the valid card reader identifier of the additional ME card reader))

See ETSI TS 102 384 [26] in subclause 27.22.4.17.1.4.2, Expected Sequence 1.5.

27.22.4.17.1.5 Test requirement

The ME 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 ME 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 ME is connected to the USIM Simulator.

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

The card reader shall be detached from the ME.

27.22.4.17.2.4.2 Procedure

Expected Sequence 2.1 (PERFORM CARD APDU, card reader 1, card reader detached)

See ETSI TS 102 384 [26] in subclause 27.22.4.17.2.4.2, Expected Sequence 2.1.

27.22.4.17.2.5 Test requirement

The ME 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 ME shall support the Proactive UICC: Power Off Card facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.18, clause 6.6.18, clause 8.6, clause 8.7, clause 8.12, clause 8.12.9, clause 5.2 and annex H.

27.22.4.18.1.3 Test purpose

To verify that the ME 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 ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs 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 ME is connected to the USIM Simulator.

The ME card reader is connected to aSIM 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 USIM Simulator shall take into account the corresponding response data.

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

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.18.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (POWER OFF CARD, card reader 1, no card inserted)

See ETSI TS 102 384 [26] in subclause 27.22.4.18.1.4.2, Expected Sequence 1.2.

27.22.4.18.1.5 Test requirement

The ME 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 ME 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 ME is connected to the USIM Simulator.

The ME card reader is connected to a SIM Simulator (SIM2).

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

Prior to this test the ME shall have powered on the SIM Simulator (SIM2).

The card reader shall be detached from the ME.

27.22.4.18.2.4.2 Procedure

Expected Sequence 2.1 (POWER OFF CARD, card reader 1, no card reader attached)

See ETSI TS 102 384 [26] in subclause 27.22.4.18.2.4.2, Expected Sequence 2.1.

27.22.4.18.2.5 Test requirement

The ME 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 ME shall support the Proactive UICC: Power On Card facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.19, clause 6.6.19, clause 8.6, clause 8.7, clause 8.12, clause 8.12.9, clause 8.34, clause 5.2 and annex H.

27.22.4.19.1.3 Test purpose

To verify that the ME 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 ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs 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 ME is connected to the USIM Simulator.

The ME 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 USIM Simulator shall take into account the corresponding response data.

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

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

27.22.4.19.1.4.2 Procedure

Expected Sequence 1.1 (POWER ON CARD, card reader 1)

See ETSI TS 102 384 [26] in subclause 27.22.4.19.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (POWER ON CARD, card reader 1, no ATR)

See ETSI TS 102 384 [26] in subclause 27.22.4.19.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (POWER ON CARD, card reader 1, no card inserted)

See ETSI TS 102 384 [26] in subclause 27.22.4.19.1.4.2, Expected Sequence 1.3.

27.22.4.19.1.5 Test requirement

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default with the following exceptions.

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

The card reader shall be detached from the ME.

27.22.4.19.2.4.2 Procedure

Expected Sequence 2.1 (POWER ON CARD, card reader 1, no card reader attached)

See ETSI TS 102 384 [26] in subclause 27.22.4.19.2.4.2, Expected Sequence 2.1.

27.22.4.19.2.5 Test requirement

The ME 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 ME shall support the Proactive UICC: Get Card Reader Status facility as defined in:

- TS 31.111 [15] clause 6.1, clause 5.2, clause 6.4.20, clause 6.6.20, clause 6.8, clause 8.6, clause 8.7, clause 8.33, clause 8.57 and annex H.

Additionally the ME shall support multiple card operation as defined in:

- TS 31.111 [15] clause 6.4.19, clause 6.6.19, clause 6.4.18 and clause 6.6.18.

27.22.4.20.1.3 Test purpose

To verify that the ME 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 ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs 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 ME shall support the Proactive UICC: Get Card Reader Status (Card Reader Status) facility. The ME is connected to the USIM Simulator.

The ME 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 USIM Simulator shall take into account the corresponding response data.

The elementary files are coded as USIM Application Toolkit default.

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

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.20.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (GET CARD READER STATUS, card reader 1, card inserted, card not powered)

See ETSI TS 102 384 [26] in subclause 27.22.4.20.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (GET CARD READER STATUS, card reader 1, card not present)

See ETSI TS 102 384 [26] in subclause 27.22.4.20.1.4.2, Expected Sequence 1.3.

27.22.4.20.1.5 Test requirement

The ME 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 ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

Prior to this test the ME shall have powered on the SIM Simulator (SIM2).

The card reader shall be detached from the ME.

27.22.4.20.2.4.2 Procedure

Expected Sequence 2.1 (GET CARD READER STATUS, no card reader attached)

See ETSI TS 102 384 [26] in subclause 27.22.4.20.2.4.2, Expected Sequence 2.1.

27.22.4.20.2.5 Test requirement

The ME 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 ME shall support the TIMER MANAGEMENT as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.21, clause 6.8, clause 8.6, clause 8.7, clause 8.37 and clause 8.38.

27.22.4.21.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (TIMER MANAGEMENT, start timer 2 several times, get the current value of the timer and deactivate the timer successfully)

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (TIMER MANAGEMENT, start timer 8 several times, get the current value of the timer and deactivate the timer successfully)

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.3.

Expected Sequence1.4 (TIMER MANAGEMENT, try to get the current value of a timer which is not started: action in contradiction with the current timer state)

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.4.

Expected Sequence1.5 (TIMER MANAGEMENT, try to deactivate a timer which is not started: action in contradiction with the current timer state)

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.5.

Expected Sequence 1.6 (TIMER MANAGEMENT, start 8 timers successfully)

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.6.

27.22.4.21.1.5 Test requirement

The ME 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 ME shall support the ENVELOPE (TIMER EXPIRATION) command as defined in the following technical specifications:

- TS 31.111 [15] clause 4.10, clause 7.4.1 and clause 7.4.2.

The ME shall support the TIMER MANAGEMENT as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.21, clause 6.8, clause 8.6, clause 8.7, clause 8.37 and clause 8.38.

27.22.4.21.2.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default with the following exceptions.

Prior to this test the ME 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 ME retries periodically to send the envelope or it waits for a status not indicating busy.

27.22.4.21.2.4.2 Procedure

Expected Sequence 2.1 (TIMER EXPIRATION, pending proactive UICC command)

See ETSI TS 102 384 [26] in subclause 27.22.4.21.2.4.2, Expected Sequence 2.1.

Expected Sequence 2.2 (TIMER EXPIRATION, UICC application toolkit busy)

See ETSI TS 102 384 [26] in subclause 27.22.4.21.2.4.2, Expected Sequence 2.2.

27.22.4.21.2.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 6.4.7 and clause 6.6.13.

Additionally the ME shall support the REFRESH proactive UICC facility as defined in:

- TS 31.111 [15] clause 5.2, clause 6.1, clause 6.4.7, clause 6.6.13, clause 6.11, clause 8.6, clause 8.7, clause 8.12, clause 9.4 and clause 10.

27.22.4.22.1.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.22.1.4.2 Procedure

Expected Sequence 1.1 (SET UP IDLE MODE TEXT, display idle mode text)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (SET UP IDLE MODE TEXT, replace idle mode text)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (SET UP IDLE MODE TEXT, remove idle mode text)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.1.4.2, Expected Sequence 1.3.

Expected Sequence 1.4 (SET UP IDLE MODE TEXT, competing information on ME display)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	["Idle Mode Text"]
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	[Command performed successfully]
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	USS → ME	SMS PP 1.4.1	[Display immediate SMS]
8	ME → USER	Display "Test Message"	
9	USER → ME	Clear display and select idle screen	
10	ME → USER	Display "Idle Mode Text"	
11	UICC → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.4.1	
12	ME → UICC	FETCH	
13	UICC → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.4.1	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
14	ME → USER	Display "Toolkit Test 1"	
15	USER → ME	Clear Message	
16	ME → UICC	TERMINAL RESPONSE: DISPLAY TEXT 1.4.1	[Command performed successfully]
17	ME → USER	Display "Idle Mode Text"	
18	UICC → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.4.1	
19	ME → UICC	FETCH	
20	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.4.1	
21	ME → USER	Display "Dial Tone" Play a standard supervisory dial tone through the external ringer for a duration of 5 s	
22	ME → UICC	TERMINAL RESPONSE: PLAY TONE 1.4.1	[Command performed successfully]
23	UICC → ME	PROACTIVE UICC SESSION ENDED	
24	ME → USER	Display "Idle Mode Text"	

SMS-PP 1.4.1

Logically:

SMS TPDU

TP-MTI	SMS-DELIVER
TP-MMS	No more messages waiting for the MS in this SC
TP-RP	TP-Reply-Path is not set in this SMS-DELIVER
TP-UDHI	TP-UD field contains only the short message
TP-SRI	A status report will not be returned to the ME
TP-OA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"1234"
TP-PID	"00"
TP-DCS	
Coding Group	General Data Coding
Compression	Text is uncompressed

Message Class Class 0
Alphabet GSM 7 bit default alphabet
TP-SCTS: 01/01/98 00:00:00 +0
TP-UDL 12
TP-UD "Test Message"

Coding:

Coding	04	04	91	21	43	00	10	89	10	10	00	00
	00	00	0C	D4	F2	9C	0E	6A	96	E7	F3	F0
	B9	0C										

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: ME
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: ME
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, ME power cycled)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	["Idle Mode Text"]
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	[command performed successfully]
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	USER → ME	Power off ME	
8	ME ⇔ UICC	3G Session TERMINATION PROCEDURE	
9	USER → ME	Power on ME	
10	ME ⇔ UICC	3G Session ACTIVATION PROCEDURE	
11	ME ⇔ UICC	USIM INITIALIZATION	
12	USER → ME	Select idle screen	Only if idle screen not already available
13	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	

Expected Sequence 1.6 (SET UP IDLE MODE TEXT, REFRESH with USIM Initialization)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	[Idle Mode Text]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	UICC → ME	PROACTIVE COMMAND PENDING: REFRESH 1.6.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: REFRESH 1.6.1	[USIM Initialization]
10	ME ⇔ UICC	USIM INITIALIZATION	
11	USER → ME	Select idle screen	Only if idle screen not already available
12	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	
13	ME → 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 → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: REFRESH 1.6.1

Logically:

Command details
    Command number: 1
    Command type: REFRESH
    Command qualifier: USIM Initialization
Device identities
    Source device: UICC
    Destination device: ME

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: USIM Initialization
Device identities
    Source device: ME
    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: USIM Initialization
Device identities
    Source device: ME
    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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.1.4.2, Expected Sequence 1.7.

27.22.4.22.1.5 Test requirement

The ME 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 ME text and / or icon passed to the ME is displayed by the ME 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 ME 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 ME 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 ME 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 ME shall reject the command with general result "Command data not understood by ME".

27.22.4.22.2.4 Method of test

27.22.4.22.2.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in update idle mode on the System Simulator.

27.22.4.22.2.4.2 Procedure

Expected Sequence 2.1A (SET UP IDLE MODE TEXT, Icon is self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.1A.

Expected Sequence 2.1B (SET UP IDLE MODE TEXT, Icon is self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.1B.

Expected Sequence 2.2A (SET UP IDLE MODE TEXT, Icon is not self-explanatory, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.2A.

Expected Sequence 2.2B (SET UP IDLE MODE TEXT, Icon is not self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.2B.

Expected Sequence 2.3A (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, successful)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.3A.

Expected Sequence 2.3B (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, requested icon could not be displayed)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.3B.

Expected Sequence 2.4 (SET UP IDLE MODE TEXT, Icon is not self-explanatory, empty text string)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.4.

27.22.4.22.2.5 Test requirement

The ME 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 support)

27.22.4.22.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.3.2 Conformance requirement

The ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

27.22.4.22.3.3 Test purpose

To verify that the UCS2 coded text string is displayed by the ME as an idle mode text.

27.22.4.22.3.4 Method of test

27.22.4.22.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in update idle mode on the System Simulator..

27.22.4.22.3.4.2 Procedure

Expected Sequence 3.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.3.4.2, Expected Sequence 3.1.

27.22.4.22.3.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.1.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.1.4.2, Expected Sequence 4.1.

27.22.4.22.4.1.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.2.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.2.4.2, Expected Sequence 4.2.

27.22.4.22.4.2.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.3.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.3.4.2, Expected Sequence 4.3.

27.22.4.22.4.3.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.4.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.4.4.2, Expected Sequence 4.4.

27.22.4.22.4.4.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.5.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.5.4.2, Expected Sequence 4.5.

27.22.4.22.4.5.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.6.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.6.4.2, Expected Sequence 4.6.

27.22.4.22.4.6.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.7.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.7.4.2, Expected Sequence 4.7.

27.22.4.22.4.7.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.8.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.8.4.2, Expected Sequence 4.8.

27.22.4.22.4.8.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.9.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.9.4.2, Expected Sequence 4.9.

27.22.4.22.4.9.5 Test requirement

The ME 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 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.10.3 Test purpose

To verify that the text passed to the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.10.4.2, Expected Sequence 4.10.

27.22.4.22.4.10.5 Test requirement

The ME 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

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

The Terminal shall additionally support the UCS2 facility for the coding of the Chinese character, as defined in:

ISO/IEC 10646 [17a/17b].

27.22.4.22.5.3 Test purpose

To verify that the UCS2 coded text string is displayed by the ME 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 USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the Terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.22.5.4.2 Procedure

Expected Sequence 5.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text in Chinese)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.5.4.2, Expected Sequence 5.1.

27.22.4.22.5.5 Test requirement

The ME 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

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

The ME shall additionally support the UCS2 facility for the coding of the Katakana character, as defined in:

ISO/IEC 10646 [17a/17b].

27.22.4.22.6.3 Test purpose

To verify that the UCS2 coded text string is displayed by the ME as an idle mode text.

27.22.4.22.6.4 Method of test

27.22.4.22.6.4.1 Initial conditions

The ME is connected to both the UICC Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.22.6.4.2 Procedure

Expected Sequence 6.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text in Katakana)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.6.4.2, Expected Sequence 6.1.

27.22.4.22.6.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31 and clause 8.41.
- TS 27.007 [18].

27.22.4.23.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator. The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 1.1.1	[no alpha identifier, request IMSI]
4	ME (→ User)	The ME may give information to the user concerning what is happening	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	[Command performed successfully, AT Response containing IMSI]

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: ME

AT Command
AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	12	81	03	01	34	00	82	02	81	82	A8
	07	41	54	2B	43	49	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: ME
Destination device: UICC
Result
General Result: Command performed successfully
AT Response
AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

Expected Sequence 1.2 (RUN AT COMMAND, null data alpha identifier presented, request IMSI)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 1.2.1	[null data alpha identifier, request IMSI]
4	ME	The ME should not give any information to user on the fact that the ME is performing an AT command	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	[Command performed successfully, AT Response containing IMSI]

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: ME
Alpha Identifier null data object
AT Command
AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	14	81	03	01	34	00	82	02	81	82	85
	00	A8	07	41	54	2B	43	49	4D	49		

Expected Sequence 1.3 (RUN AT COMMAND, alpha identifier presented, request IMSI)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 1.3.1	[alpha identifier, request IMSI]
4	ME → USER	Display "Run AT Command"	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	[Command performed successfully, AT Response containing IMSI]

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: ME
Alpha Identifier
    Alpha Identifier "Run AT Command"
AT Command
    AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	22	81	03	01	34	00	82	02	81	82	85
	0^E	52	75	6^E	20	41	54	20	43	6F	6D	6D
	61	6E	64	A8	07	41	54	2B	43	49	4D	49

27.22.4.23.1.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31 and clause 8.41.

- TS 27.007 [18].

27.22.4.23.2.3 Test purpose

To verify that the ME 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 ME 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 ME is connected to the USIM Simulator. The elementary files are coded as Toolkit default.

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

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

The ME 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 IMSI, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.1.1	[BASIC-ICON, self-explanatory, request IMSI]
4	ME → USER	Display BASIC ICON without the alpha identifier	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	[Command performed successfully, AT response containing IMSI]

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: ME
Alpha Identifier
    Alpha identifier: "Basic Icon"
AT Command
    AT Command string: "AT+CIMI"
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	49	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: ME
- Destination device: UICC

Result
- General Result: Command performed successfully

AT Response
- AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

Expected Sequence 2.1B (RUN AT COMMAND, basic icon self explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.1.1	[BASIC-ICON, self-explanatory, request IMSI]
4	ME → USER	Display 'Basic Icon' without the BASIC-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

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: ME
- Destination device: UICC

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

AT Response
- AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	04
	A9	08	09	10	10	10	32	54	76	98		

Expected Sequence 2.2A (RUN AT COMMAND, colour icon self explanatory, request IMSI, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.2.1	[COLOUR-ICON, self-explanatory, request IMSI]
4	ME → USER	Display COLOUR-ICON without the alpha identifier	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	[Command performed successfully, AT response containing IMSI]

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: ME
Alpha Identifier
    Alpha identifier: "Colour Icon"
AT Command
    AT Command string: "AT+CIMI"
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	49	4D	49	9E	02	00
	02											

Expected Sequence 2.2B (RUN AT COMMAND, colour icon self explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.2.1	[COLOUR-ICON, self-explanatory, request IMSI]
4	ME → USER	Display 'Colour Icon' without the COLOUR-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

Expected Sequence 2.3A (RUN AT COMMAND, basic icon non self-explanatory, request IMSI, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.3.1	[BASIC-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Basic Icon" and BASIC-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	[Command performed successfully, AT response containing IMSI]

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: ME
Alpha Identifier
    Alpha identifier: "Basic Icon"
AT Command
    AT Command string: "AT+CIMI"
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	49	4D	49	9E	02	01	01

Expected Sequence 2.3B (RUN AT COMMAND, basic icon non self-explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.3.1	[BASIC-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Basic Icon" without BASIC-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

Expected Sequence 2.4A (RUN AT COMMAND, colour icon non self-explanatory, request IMSI, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.4.1	[COLOUR-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Colour Icon" and COLOUR-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A	[Command performed successfully, AT response containing IMSI]

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: ME
Alpha Identifier
Alpha identifier: "Colour Icon"
AT Command
AT Command string: "AT+CIMI"
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	49	4D	49	9E	02	01
	02											

Expected Sequence 2.4B (RUN AT COMMAND, colour icon non self-explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.4.1	[COLOUR-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Colour Icon" without COLOUR-ICON	
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

Expected Sequence 2.5 (RUN AT COMMAND, basic icon non self-explanatory, no alpha identifier presented)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.5.1	[BASIC-ICON, non self-explanatory]
4	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 2.5.1	[Command data not understood by ME]

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: ME
AT Command
    AT Command string: "AT+CIMI"
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	49	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: ME
Result
    General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	32

27.22.4.23.2.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI, Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.1.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with left alignment, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.1.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.1.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.1.2	
10	ME (→ USER)	Display "Run AT Command 2"	[Message shall be formatted without left alignment, request IMSI. Remark: If left alignment is the ME"s default alignment as declared in table A.2/16, no alignment change will take place]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.1.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	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: ME

Alpha Identifier
- Alpha Identifier "Run AT Command 1"

AT Command
- AT Command string: "AT+CIMI"

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	49
	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: ME
Alpha Identifier
    Alpha Identifier "Run AT Command 2"
AT Command
AT Command string: "AT+CIMI"

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	49
	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: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

27.22.4.23.3.1.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.2.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI, Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.2.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with center alignment, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.2.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.2.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.2.2	
10	ME (→ USER)	Display "Run AT Command 2"	[Message shall be formatted without center alignment, request IMSI. Remark: If center alignment is the ME"s default alignment as declared in table A.2/16, no alignment change will take place]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.2.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 1"
AT Command
AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 2"
AT Command
AT Command string: "AT+CIMI"

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	49
	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: ME
Destination device: UICC
Result
General Result: Command performed successfully
AT Response
AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

27.22.4.23.3.2.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.3.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI, Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.3.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with right alignment, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.3.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.3.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.3.2	
10	ME (→ USER)	Display "Run AT Command 2"	[Message shall be formatted without right alignment, request IMSI. Remark: If right alignment is the ME"s default alignment as declared in table A.2/16, no alignment change will take place]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.3.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	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: ME
Alpha Identifier
    Alpha Identifier "Run AT Command 1"
AT Command
    AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
    Alpha Identifier "Run AT Command 2"
AT Command
AT Command string: "AT+CIMI"

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	49
	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: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

27.22.4.23.3.3.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.4.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI, Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.4.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with large font size, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.4.2	
10	ME (→ USER)	Display "Run AT Command 2"	[alpha identifier is displayed with normal font size, request IMSI]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.4.1	
16	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with large font size, request IMSI]
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.4.3	
22	ME (→ USER)	Display "Run AT Command 3"	[alpha identifier is displayed with normal font size, request IMSI]
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.4.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	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: ME

Alpha Identifier
Alpha Identifier "Run AT Command 1"
AT Command
AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 2"
AT Command
AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 3"
AT Command

AT Command string: "AT+CIMI"

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	49
	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: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
AT Response
  AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

27.22.4.23.3.4.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.5.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI, Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.5.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with small font size, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.5.2	
10	ME (→ USER)	Display "Run AT Command 2"	[alpha identifier is displayed with normal font size, request IMSI]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.5.1	
16	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with small font size, request IMSI]
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.5.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.5.3	
22	ME (→ USER)	Display "Run AT Command 3"	[alpha identifier is displayed with normal font size, request IMSI]
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	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: ME

- Alpha Identifier
  - Alpha Identifier "Run AT Command 1"
- AT Command
  - AT Command string: "AT+CIMI"
- 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	49
	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: ME
- Alpha Identifier
  - Alpha Identifier "Run AT Command 2"
- AT Command
  - AT Command string: "AT+CIMI"
- 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	49
	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: ME
- Alpha Identifier
  - Alpha Identifier "Run AT Command 3"
- AT Command

AT Command string: "AT+CIMI"

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	49
	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: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

27.22.4.23.3.5.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.6.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI, Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.6.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with bold on, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.6.2	
10	ME (→ USER)	Display "Run AT Command 2"	[alpha identifier is displayed with bold off, request IMSI]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.6.1	
16	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with bold on, request IMSI]
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.6.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.6.3	
22	ME (→ USER)	Display "Run AT Command 3"	[alpha identifier is displayed with bold off, request IMSI]
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	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: ME

Alpha Identifier
 Alpha Identifier "Run AT Command 1"
AT Command
 AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
 Alpha Identifier "Run AT Command 2"
AT Command
 AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
 Alpha Identifier "Run AT Command 3"
AT Command

AT Command string: "AT+CIMI"

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	49
	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: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

27.22.4.23.3.6.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.7.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI, Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.7.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with italic on, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.7.2	
10	ME (→ USER)	Display "Run AT Command 2"	[alpha identifier is displayed with italic off, request IMSI]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.7.1	
16	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with italic on, request IMSI]
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.7.3	
22	ME (→ USER)	Display "Run AT Command 3"	[alpha identifier is displayed with italic off, request IMSI]
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	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: ME

Alpha Identifier
Alpha Identifier "Run AT Command 1"
AT Command
AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 2"
AT Command
AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 3"
AT Command

AT Command string: "AT+CIMI"

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	49
	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: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

27.22.4.23.3.7.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.8.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI, Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.8.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with underline on, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.8.2	
10	ME (→ USER)	Display "Run AT Command 2"	[alpha identifier is displayed with underline off, request IMSI]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.8.1	
16	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with underline on, request IMSI]
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.8.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.8.3	
22	ME (→ USER)	Display "Run AT Command 3"	[alpha identifier is displayed with underline off, request IMSI]
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.8.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	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: ME

Alpha Identifier
Alpha Identifier "Run AT Command 1"
AT Command
AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 2"
AT Command
AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 3"
AT Command

AT Command string: "AT+CIMI"

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	49
	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: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
AT Response
    AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

27.22.4.23.3.8.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.9.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI, Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.9.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with strikethrough on, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.9.2	
10	ME (→ USER)	Display "Run AT Command 2"	[alpha identifier is displayed with strikethrough off, request IMSI]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.9.1	
16	ME (→ USER)	Display " Run AT Command 1"	[alpha identifier is displayed with strikethrough on, request IMSI]
17	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	[Command performed successfully, AT Response containing IMSI]
18	UICC → ME	PROACTIVE UICC SESSION ENDED	
19	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.9.3	
22	ME (→ USER)	Display "Run AT Command 3"	[alpha identifier is displayed with strikethrough off, request IMSI]
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.9.1	[Command performed successfully, AT Response containing IMSI]
24	UICC → ME	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: ME

Alpha Identifier
Alpha Identifier "Run AT Command 1"
AT Command
AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 2"
AT Command
AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 3"
AT Command

AT Command string: "AT+CIMI"

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	49
	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: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
AT Response
  AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

27.22.4.23.3.9.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.10.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 IMSI, Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.10.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with foreground and background colour according to the text attribute configuration, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.10.1	[Command performed successfully, AT Response containing IMSI]
6	UICC → ME	PROACTIVE UICC SESSION ENDED	
7	UICC → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.10.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN AT COMMAND 3.10.2	
10	ME (→ USER)	Display "Run AT Command 2"	[alpha identifier is displayed with ME"s default foreground and background colour, request IMSI]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.10.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	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: ME
Alpha Identifier
  Alpha Identifier "Run AT Command 1"
AT Command
  AT Command string: "AT+CIMI"
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	49
	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: ME
Alpha Identifier
Alpha Identifier "Run AT Command 2"
AT Command
AT Command string: "AT+CIMI"

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	49
	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: ME
Destination device: UICC
Result
General Result: Command performed successfully
AT Response
AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	09	10	10	10	32	54	76	98		

27.22.4.23.3.10.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.4.3 Test purpose

To verify that the ME 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 ME is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 ME Manufacturer ID)

See ETSI TS 102 384 [26] in subclause 27.22.4.23.4.4.2, Expected Sequence 4.1.

27.22.4.23.4.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.5.3 Test purpose

To verify that the ME 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 ME is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 ME Manufacturer ID)

See ETSI TS 102 384 [26] in subclause 27.22.4.23.5.4.2, Expected Sequence 5.1.

27.22.4.23.5.5 Test requirement

The ME 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 ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.6.3 Test purpose

To verify that the ME 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 ME is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

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

Prior to the test the ME 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 ME Manufacturer ID)

See ETSI TS 102 384 [26] in subclause 27.22.4.23.6.4.2, Expected Sequence 6.1.

27.22.4.23.6.5 Test requirement

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

27.22.4.24 SEND DTMF

27.22.4.24.1 SEND DTMF (Normal)

27.22.4.24.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

27.22.4.24.1.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that if an alpha identifier is provided by the UICC and is a null data object the ME does not give any information to the user on the fact that the ME is performing a SEND DTMF command.

27.22.4.24.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.1.4. 2 Procedure

Expected Sequence 1.1 (SEND DTMF, normal)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 1.1.1	
7	ME → USER	May give information to the user concerning what is happening. Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 1.1.1

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
DTMF String: "1" pause "2"

Coding:

BER-TLV:	D0	0D	81	03	01	14	00	82	02	81	83	AC
	02	C1	F2									

Start DTMF 1.1

Logically:

DTMF String: "1"

Start DTMF 1.2

Logically:

DTMF String: "2"

TERMINAL RESPONSE: SEND DTMF 1.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND DTMF
  Command qualifier: "00"
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (SEND DTMF, containing alpha identifier)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.2.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 1.2.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	Alpha identifier
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 1.2.1

Logically:

Command details
  Command number: 1
  Command type: SEND DTMF
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
  Alpha identifier: "Send DTMF"
  DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1B	81	03	01	14	00	82	02	81	83	85
	09	53	65	6E	64	20	44	54	4D	46	AC	05
	21	43	65	87	09							

Start DTMF 1.3

Logically:

DTMF String: "3"

Start DTMF 1.4

Logically:

DTMF String: "4"

Start DTMF 1.5

Logically:

DTMF String: "5"

Start DTMF 1.6

Logically:

DTMF String: "6"

Start DTMF 1.7

Logically:

DTMF String: "7"

Start DTMF 1.8

Logically:

DTMF String: "8"

Start DTMF 1.9

Logically:

DTMF String: "9"

Start DTMF 1.10

Logically:

DTMF String: "0"

Expected Sequence 1.3 (SEND DTMF, containing alpha identifier with null data object)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.3.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 1.3.1	Alpha identifier with null data object
7	ME → USER	Do not give any information to the user on the fact that the ME is performing a SEND DTMF command. Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 30 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 1.3.1

Logically:

Command details
- Command number: 1
- Command type: SEND DTMF
- Command qualifier: "00"

Device identities
- Source device: UICC
- Destination device: Network
- Alpha identifier: "" (null data object)
- DTMF String: "1" pause pause pause pause pause pause pause pause pause pause "2"

Coding:

BER-TLV:	D0	13	81	03	01	14	00	82	02	81	83	85
	00	AC	06	C1	CC	CC	CC	CC	2C			

Expected Sequence 1.4 (SEND DTMF, mobile is not in a speech call)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.1.1	[Mobile is not in a speech call]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND DTMF 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SEND DTMF 1.4.1	[ME currently unable to process command, not in speech call]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: SEND DTMF 1.4.1

Logically:

Command details
  Command number: 1
  Command type: SEND DTMF
  Command qualifier: "00"
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: ME currently unable to process command
  Additional information: Not in speech call

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	02	20
	07											

27.22.4.24.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.4.

27.22.4.24.2 SEND DTMF (Display of icons)

27.22.4.24.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.2.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44, clause 8.31 and clause 6.5.4.

27.22.4.24.2.3 Test purpose

To verify that after a call has been successfully established the ME send the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME do not locally generate audible DTMF tones and play them to the user.

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the icons which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.2.4 Method of test

27.22.4.24.2.4.1 Initial conditions

The ME is connected to the SIM Simulator and only connected to the System Simulator if the System Simulator is mentioned in the sequence table.Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

The elementary files are coded as Toolkit default.

27.22.4.24.2.4.2 Procedure

Expected Sequence 2.1A (SEND DTMF, BASIC ICON self explanatory, successful)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.1.1	[BASIC-ICON, self-explanatory]
7	ME → USER	Display the BASIC-ICON Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 2.1.1

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Basic Icon"
DTMF String: "1" pause "2"
Icon identifier
Icon qualifier: icon is self-explanatory
Icon identifier: record 1 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0A	42	61	73	69	63	20	49	63	6F	6E	AC
	02	C1	F2	9E	02	00	01					

DTMF Request 2.1.1

Logically:

DTMF String: $DTMF_2.1$ = "C1 F2" (given as example)

TERMINAL RESPONSE: SEND DTMF 2.1.1A

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: ME

Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

Expected Sequence 2.1B (SEND DTMF, BASIC ICON self explanatory, requested icon could not be displayed)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.1.1	[BASIC-ICON, self-explanatory]
7	ME → USER	Display "Basic Icon" without the icon Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20 %
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

TERMINAL RESPONSE: SEND DTMF 2.1.1B

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	04

Expected Sequence 2.2A (SEND DTMF, COLOUR-ICON self explanatory, successful)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.2.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.2.1	[COLOUR-ICON]
7	ME → USER	Display the COLOUR-ICON Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 2.2.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
    Alpha identifier: "Colour Icon"
    DTMF String: "1" pause "2"
Icon identifier:
    Icon qualifier: icon is self-explanatory
    Icon identifier: record 2 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1E	81	03	01	14	00	82	02	81	83	85
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6E
	AC	02	C1	F2	9E	02	00	02				

Expected Sequence 2.2B (SEND DTMF, COLOUR-ICON self explanatory, requested icon could not be displayed)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.2.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.2.1	[COLOUR-ICON]
7	ME → USER	Display "Colour Icon" without the icon Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

Expected Sequence 2.3A (SEND DTMF, Alpha identifier & BASIC-ICON, not self-explanatory, successful)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.3.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.3.1	[Alpha identifier & BASIC-ICON, not self-explanatory]
7	ME → USER	Display 'Send DTMF' and the BASIC-ICON Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20 %
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 2.3.1

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"

Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"Send DTMF"
DTMF String:	"1" pause "2"
Icon identifier:	
Icon qualifier:	icon is not self-explanatory
Icon identifier:	record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1C	81	03	01	14	00	82	02	81	83	85
	09	53	65	6E	64	20	44	54	4D	46	AC	02
	C1	F2	9E	02	01	01						

Expected Sequence 2.3B (SEND DTMF, Alpha identifier & BASIC-ICON, not self-explanatory, requested icon could not be displayed)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.3.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.3.1	[Alpha identifier & BASIC-ICON, not self-explanatory]
7	ME → USER	Display "Send DTMF" without the icon Do not locally generate audible DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

27.22.4.24.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.3.

27.22.4.24.3 SEND DTMF (UCS2 display in Cyrillic)

27.22.4.24.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646. [17].

27.22.4.24.3.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND DTMF proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.24.3.4 Method of test

27.22.4.24.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.24.3.4.2 Procedure

Expected Sequence 3.1 (SEND DTMF, successful, UCS2 text in Cyrillic)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 3.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 3.1.1	
7	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 3.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 3.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND DTMF
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
Alpha Identifier
  Text: "ЗДРАВСТВУЙТЕ"
  DTMF String: "1" pause "2"

Coding:

BER-TLV:	D0	28	81	03	01	14	00	82	02	81	83	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	AC	02	C1	F2						

TERMINAL RESPONSE: SEND DTMF 3.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successful

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.12.2.5 Test requirement

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

27.22.4.24.4 SEND DTMF (support of Text Attribute)

27.22.4.24.4.1 SEND DTMF (support of Text Attribute – Left Alignment)

27.22.4.24.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.1.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the left alignment text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.1.4 Method of test

27.22.4.24.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.1.4.2 Procedure

Expected Sequence 4.1 (SEND DTMF, with text attribute – Left Alignment)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.1.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with left alignment]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.1.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.1.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.1.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/17, no alignment change will take place]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.1.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.1.1

Logically:

Command details

Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"
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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	0B	00
	B4											

PROACTIVE COMMAND: SEND DTMF 4.1.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.1.1

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.1.5 Test requirement

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

27.22.4.24.4.2 SEND DTMF (support of Text Attribute – Center Alignment)

27.22.4.24.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.2.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the center alignment text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.2.4 Method of test

27.22.4.24.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.2.4.2 Procedure

Expected Sequence 4.2 (SEND DTMF, with text attribute – Center Alignment)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.2.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.2.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with center alignment]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.2.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.2.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.2.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/17, no alignment change will take place]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.2.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.2.1

Logically:

Command details

Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"
Text Attribute
Formatting position: 0
Formatting length: 11
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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	0B	01
	B4											

PROACTIVE COMMAND: SEND DTMF 4.2.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.2.1

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.24.4.3 SEND DTMF (support of Text Attribute – Right Alignment)

27.22.4.24.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.3.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the right alignment text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.3.4 Method of test

27.22.4.24.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.3.4.2 Procedure

Expected Sequence 4.3 (SEND DTMF, with text attribute – Right Alignment)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.3.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.3.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with right alignment]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.3.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.3.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.3.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/17, no alignment change will take place]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.3.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.3.1

Logically:

Command details

Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"
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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	B0	02
	B4											

PROACTIVE COMMAND: SEND DTMF 4.3.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.3.1

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.24.4.4 SEND DTMF (support of Text Attribute – Large Font Size)

27.22.4.24.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.4.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the large font size text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.4.4 Method of test

27.22.4.24.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.4.4.2 Procedure

Expected Sequence 4.4 (SEND DTMF, with text attribute – Large Font Size)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.4.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.4.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with large font size]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.4.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.4.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.4.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with normal font size]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.4.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.4.1	

45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.4.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with large font size]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.4.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.4.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.4.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with normal font size]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.4.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.4.1

Logically:

Command details
- Command number: 1
- Command type: SEND DTMF
- Command qualifier: "00"

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

Alpha identifier: "Send DTMF 1"

DTMF String: "1234567890"

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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	0B	04
	B4											

PROACTIVE COMMAND: SEND DTMF 4.4.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"
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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	0B	00
	B4											

PROACTIVE COMMAND: SEND DTMF 4.4.3

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 3"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.24.4.5 SEND DTMF (support of Text Attribute – Small Font Size)

27.22.4.24.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.5.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.5.4 Method of test

27.22.4.24.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.5.4.2 Procedure

Expected Sequence 4.5 (SEND DTMF, with text attribute – Small Font Size)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.5.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with small font size]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.5.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.5.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with normal font size]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.5.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.1	

45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.5.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with small font size]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.5.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.5.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with normal font size]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.5.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.5.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"

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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	0B	08
	B4											

PROACTIVE COMMAND: SEND DTMF 4.5.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"
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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	0B	00
	B4											

PROACTIVE COMMAND: SEND DTMF 4.5.3

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 3"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.5.1

Logically:

Command details		
	Command number:	1
	Command type:	SEND DTMF
	Command qualifier:	"00"
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.24.4.6 SEND DTMF (support of Text Attribute – Bold On)

27.22.4.24.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.6.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the bold text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.6.4 Method of test

27.22.4.24.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.6.4.2 Procedure

Expected Sequence 4.6 (SEND DTMF, with text attribute – Bold On)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.6.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with bold on]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.6.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.6.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with bold off]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.6.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.1	

45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.6.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with bold on]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.6.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.6.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with bold off]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.6.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.6.1

Logically:

Command details
  Command number: 1
  Command type: SEND DTMF
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"

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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	0B	10
	B4	00										

PROACTIVE COMMAND: SEND DTMF 4.6.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"
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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	0B	00
	B4											

PROACTIVE COMMAND: SEND DTMF 4.6.3

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 3"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.6.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.24.4.7 SEND DTMF (support of Text Attribute – Italic On)

27.22.4.24.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.7.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the italic text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.7.4 Method of test

27.22.4.24.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.7.4.2 Procedure

Expected Sequence 4.7 (SEND DTMF, with text attribute – Italic On)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.7.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.7.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with italic on]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.7.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.7.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.7.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with italic off]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.7.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.7.1	

45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.7.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with italic on]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.7.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.7.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.7.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with italic off]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.7.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.7.1

Logically:

Command details
- Command number: 1
- Command type: SEND DTMF
- Command qualifier: "00"

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

Alpha identifier: "Send DTMF 1"

DTMF String: "1234567890"

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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	0B	20
	B4											

PROACTIVE COMMAND: SEND DTMF 4.7.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"
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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	0B	00
	B4											

PROACTIVE COMMAND: SEND DTMF 4.7.3

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 3"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.7.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.24.4.8 SEND DTMF (support of Text Attribute – Underline On)

27.22.4.24.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.8.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the underline text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.8.4 Method of test

27.22.4.24.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.8.4.2 Procedure

Expected Sequence 4.8 (SEND DTMF, with text attribute – Underline On)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.8.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with underline on]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.8.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.8.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with underline off]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.8.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.1	

45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.8.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with underline on]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.8.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.8.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with underline off]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.8.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.8.1

Logically:

Command details
  Command number: 1
  Command type: SEND DTMF
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"

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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	0B	40
	B4											

PROACTIVE COMMAND: SEND DTMF 4.8.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"
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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	0B	00
	B4											

PROACTIVE COMMAND: SEND DTMF 4.8.3

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 3"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.8.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.24.4.9 SEND DTMF (support of Text Attribute – Strikethrough On)

27.22.4.24.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.9.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.9.4 Method of test

27.22.4.24.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.9.4.2 Procedure

Expected Sequence 4.9 (SEND DTMF, with text attribute – Strikethrough On)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.9.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.9.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with strikethrough on]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.9.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.9.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.9.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with strikethrough off]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.9.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	
41	User → ME	Set up a call to "+0123456789"	
42	ME → USS	The ME attempts to set up a call to "+0123456789"	
43	USS → ME	The ME receives the CONNECT message from the USS.	
44	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.9.1	

45	ME → UICC	FETCH	
46	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.9.1	
47	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with strikethrough on]
48	ME → USS	Start DTMF 1.1	["1"]
49	ME → USS	Start DTMF 1.2	["2"]
50	ME → USS	Start DTMF 1.3	["3"]
51	ME → USS	Start DTMF 1.4	["4"]
52	ME → USS	Start DTMF 1.5	["5"]
53	ME → USS	Start DTMF 1.6	["6"]
54	ME → USS	Start DTMF 1.7	["7"]
55	ME → USS	Start DTMF 1.8	["8"]
56	ME → USS	Start DTMF 1.9	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.9.1	[Command performed successfully]
59	UICC → ME	PROACTIVE UICC SESSION ENDED	
60	User → ME	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to "+0123456789"	
63	USS → ME	The ME receives the CONNECT message from the USS.	
64	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.9.3	
65	ME → UICC	FETCH	
66	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.9.3	
67	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with strikethrough off]
68	ME → USS	Start DTMF 1.1	["1"]
69	ME → USS	Start DTMF 1.2	["2"]
70	ME → USS	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	ME → USS	Start DTMF 1.5	["5"]
73	ME → USS	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	ME → USS	Start DTMF 1.8	["8"]
76	ME → USS	Start DTMF 1.9	["9"]
77	ME → USS	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.9.1	[Command performed successfully]
79	UICC → ME	PROACTIVE UICC SESSION ENDED	
80	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.9.1

Logically:

Command details
  Command number: 1
  Command type: SEND DTMF
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"

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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	0B	80B
	B4											

PROACTIVE COMMAND: SEND DTMF 4.9.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"
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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09	D0	04	00	0B	00
	B4											

PROACTIVE COMMAND: SEND DTMF 4.9.3

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 3"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	33
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.9.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.24.4.10 SEND DTMF (support of Text Attribute – Foreground and Background Colour)

27.22.4.24.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.10.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.10.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.10.4 Method of test

27.22.4.24.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.10.4.2 Procedure

Expected Sequence 4.10 (SEND DTMF, with text attribute – Foreground and Background Colour)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.10.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.10.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with foreground and background colour according to the text attribute configuration]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	ME → USS	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	ME → USS	Start DTMF 1.6	["6"]
14	ME → USS	Start DTMF 1.7	["7"]
15	ME → USS	Start DTMF 1.8	["8"]
16	ME → USS	Start DTMF 1.9	["9"]
17	ME → USS	Start DTMF 1.10	["0"]
18	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.10.1	[Command performed successfully]
19	UICC → ME	PROACTIVE UICC SESSION ENDED	
20	User → ME	End the call	
21	User → ME	Set up a call to "+0123456789"	
22	ME → USS	The ME attempts to set up a call to "+0123456789"	
23	USS → ME	The ME receives the CONNECT message from the USS.	
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 4.10.2	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.10.2	
27	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with ME"s default foreground and background colour]
28	ME → USS	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	ME → USS	Start DTMF 1.3	["3"]
31	ME → USS	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	ME → USS	Start DTMF 1.6	["6"]
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.10.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 4.10.1

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 1"
DTMF String: "1234567890"
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	23	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	31
	AC	05	21	43	65	87	09	D0	04	00	0B	00
	B4											

PROACTIVE COMMAND: SEND DTMF 4.10.2

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: "Send DTMF 2"
DTMF String: "1234567890"

Coding:

BER-TLV:	D0	1D	81	03	01	14	00	82	02	81	83	85
	0B	53	65	6E	64	20	44	54	4D	46	20	32
	AC	05	21	43	65	87	09					

TERMINAL RESPONSE: SEND DTMF 4.10.1

Logically:

Command details
Command number: 1
Command type: SEND DTMF
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.24.5 SEND DTMF (UCS2 Display in Chinese)

27.22.4.24.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters , as defined in:

- ISO/IEC 10646. [17].

27.22.4.24.5.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND DTMF proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.24.5.4 Method of test

27.22.4.24.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.24.5.4.2 Procedure

Expected Sequence 5.1 (SEND DTMF, successful, UCS2 text in Chinese)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 5.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 5.1.1	
7	ME → USER	Display "你好"	["Hello" in Chinese]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 5.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 5.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: UICC
    Destination device: Network
Alpha Identifier
    Text: "你好"
    DTMF String: "1" pause "2"

Coding:

BER-TLV:	D0	14	81	03	01	14	00	82	02	81	83	85
	05	80	4F	60	59	7D	AC	02	C1	F2		

TERMINAL RESPONSE: SEND DTMF 5.1.1

Logically:

Command details
    Command number: 1
    Command type: SEND DTMF
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successful

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.5.5 Test requirement

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

27.22.4.24.6 SEND DTMF (UCS2 Display in Katakana)

27.22.4.24.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters , as defined in:

- ISO/IEC 10646. [17].

27.22.4.24.6.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND DTMF proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.24.6.4 Method of test

27.22.4.24.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.24.6.4.2 Procedure

Expected Sequence 6.1 (SEND DTMF, successful, UCS2 text)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → USS	The ME attempts to set up a call to "+0123456789"	
3	USS → ME	The ME receives the CONNECT message from the USS.	
4	UICC → ME	PROACTIVE COMMAND PENDING: SEND DTMF 6.1.1	
5	ME → UICC	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 6.1.1	
7	ME → USER	Display "ﾙ"	[Character in Katakana]
8	ME → USS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → USS	Start DTMF 1.2	["2"]
11	ME → UICC	TERMINAL RESPONSE: SEND DTMF 6.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE UICC SESSION ENDED	
13	User → ME	End the call	

PROACTIVE COMMAND: SEND DTMF 6.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND DTMF
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: Network
Alpha Identifier
  Text: "ル"
  DTMF String: "1" pause "2"

Coding:

BER-TLV:	D0	12	81	03	01	14	00	82	02	81	83	85
	03	80	30	EB	AC	02	C1	F2				

TERMINAL RESPONSE: SEND DTMF 6.1.1

Logically:

Command details
  Command number: 1
  Command type: SEND DTMF
  Command qualifier: "00"
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successful

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00

27.22.4.24.6.5 Test requirement

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

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 ME 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 31.111 [15] clause 6.4.25 and clause 6.6.25.

27.22.4.25.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (OK) to the UICC after the ME receives the LANGUAGE NOTIFICATION proactive UICC command.

27.22.4.25.4 Method of Test

27.22.4.25.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.25.4.2 Procedure

Expected Sequence 1.1 (LANGUAGE NOTIFICATION)

See ETSI TS 102 384 [26] in subclause 27.22.4.25.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (LANGUAGE NOTIFICATION)

See ETSI TS 102 384 [26] in subclause 27.22.4.25.4.2, Expected Sequence 1.2.

27.22.4.25.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 and 1.2.

27.22.4.26 LAUNCH BROWSER

27.22.4.26.1 LAUNCH BROWSER (No session already launched)

27.22.4.26.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.1.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15 and clause 8.31.

27.22.4.26.1.3 Test purpose

To verify that when the ME is in idle state, it launches properly the browser session required in LAUNCH BROWSER, and returns a successful result in the TERMINAL RESPONSE command.

27.22.4.26.1.4 Method of test

27.22.4.26.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default browser parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default browser parameters.

The mobile is in idle mode.

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.26.1.4.2 Procedure

Expected Sequence 1.1 (LAUNCH BROWSER, connect to the default URL)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.1.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id.]
4	ME → USER	ME displays the alpha identifier	
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.1.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default browser parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default browser session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.1.1

Logically:

Command details

Command number:	1
Command type:	LAUNCH BROWSER
Command qualifier:	launch browser, if not already launched

Device identities

Source device:	UICC
Destination device:	ME
URL	empty
Alpha Identifier	"Default URL"

Coding:

BER-TLV:	D0	18	81	03	01	15	00	82	02	81	82	31
	00	05	0B	44	65	66	61	75	6C	74	20	55
	52	4C										

TERMINAL RESPONSE: LAUNCH BROWSER 1.1.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (LAUNCH BROWSER, connect to the specified URL, alpha identifier length=0)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.2.1	[connect to defined URL, "launch browser, if not already launched, alpha identifier length=0]
4	ME → USER	No information should be displayed.	
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.2.1	[Command performed successfully]
7	ME→USS	The ME attempts to connect the URL specified in the LAUNCH BROWSER command.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the URL is properly connected. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.2.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME

URL http://xxx.yyy.zzz (Note: this URL shall be different from the default URL, but it can be reached from the gateway defined by default in the browser parameters of the mobile)

Alpha Identifier empty

Coding:

BER-TLV:	D0	1F	81	03	01	15	00	82	02	81	82	31
	12	68	74	74	70	3A	2F	2F	78	78	78	2E
	79	79	79	2E	7A	7A	7A	05	00			

TERMINAL RESPONSE: LAUNCH BROWSER 1.2.1

Logically:

Command details
- Command number: 1
- Command type: LAUNCH BROWSER
- Command qualifier: launch browser, if not already launched

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

Expected Sequence 1.3 (LAUNCH BROWSER, Browser identity, no alpha identifier)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.3.1	[connect to the default URL, "launch browser, if not already launched, browser identity]
4	ME → USER	ME may display a default message of its own.	
5	USER → ME	The user may confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.3.1	[Command performed successfully]
7	ME→USS	The ME attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default browser session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.3.1

Logically:

Command details
- Command number: 1
- Command type: LAUNCH BROWSER

Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
Browser Identity default
URL empty

Coding::

BER-TLV:	D0	0E	81	03	01	15	00	82	02	81	82	30
	01	00	31	00								

TERMINAL RESPONSE: LAUNCH BROWSER 1.3.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

Expected Sequence 1.4 (LAUNCH BROWSER, only GPRS bearer specified and gateway/proxy identity, GPRS supported by USS)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode, GPRS supported by USS, GPRS supported by the ME and activated, the terminal might need to be configured with an entry linking the Gateway/Proxy Identity in the proactive command with the corresponding connectivity parameters in the mobile]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.4.1	[connect to the default URL, "launch browser, if not already launched, 1 bearer specified, gateway/proxy id specified]
4	ME → USER	ME may display a default message	
5	USER → ME	The user may confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1	[Command performed successfully]
7	ME→USS	The ME attempts to connect the default URL using the requested bearer and proxy identity	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the browser session is properly established with the required bearer. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.4.1

Logically:

Command details
 Command number: 1
 Command type: LAUNCH BROWSER
 Command qualifier: launch browser, if not already launched
Device identities
 Source device: UICC
 Destination device: ME
 URL empty
 Bearer GPRS
Gateway/Proxy id
 DCSunpacked, 8 bits data
 Text string abc.def.ghi.jkl (different from the default IP address)

Coding::

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	31
	00	32	01	03	0D	10	04	61	62	63	2E	64
	65	66	2E	67	68	69	2E	6A	6B	6C		

TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1

Logically:

Command details
 Command number: 1
 Command type: LAUNCH BROWSER

Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

Expected Sequence 1.5 Void

27.22.4.26.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.4

27.22.4.26.2 LAUNCH BROWSER (Interaction with current session)

27.22.4.26.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.2.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 82.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

27.22.4.26.2.3 Test purpose

To verify that when the ME is already busy in a browser session, it launches properly the browser session required in LAUNCH BROWSER, and returns a successful result in the TERMINAL RESPONSE.

27.22.4.26.2.4 Method of test

27.22.4.26.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to a Wap gateway is required. The default browser parameters (IP address, gateway/proxy identity, called number…) of the tested mobile shall be properly filled to access that gateway.

The mobile is busy in a browser session, the user navigates in pages different from the URL defined by default in browser parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

27.22.4.26.2.4.2 Procedure

Expected Sequence 2.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a browser session (not default URL).	[Browser is in use, the current session is not secured]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 2.1.1	[connect to the default URL, "use the existing browser", no null alpha id.]
4	ME → USER	ME displays the alpha identifier	
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 2.1.1	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 2.1.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: use the existing browser
Device identities
    Source device: UICC
    Destination device: ME
    URL empty
Alpha Identifier "Default URL"

Coding:

BER-TLV:	D0	18	81	03	01	15	02	82	02	81	82	31
	00	05	0B	44	65	66	61	75	6C	74	20	55
	52	4C										

TERMINAL RESPONSE: LAUNCH BROWSER 2.1.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: use the existing browser
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

Expected Sequence 2.2 (LAUNCH BROWSER, close the existing browser session and launch new browser session, connect to the default URL)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a browser session (not default URL)..	[Browser is in use, the current session is not secured]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 2.2.1	[connect to the default URL, "close the existing browser session and launch new browser session", no null alpha id.]
4	ME → USER	ME displays the alpha identifier	
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 2.2.1	[Command performed successfully]
7	ME→USS	The ME closes the existing session and attempts to launch the session with the default browser parameters and the default URL.	[The UE has the option of maintaining the currently active PDP Context]
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected. Then he/she ends the navigation.	

PROACTIVE COMMAND: LAUNCH BROWSER 2.2.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: close the existing browser session and launch new browser session
Device identities
    Source device: UICC
    Destination device: ME
    URL empty
Alpha Identifier "Default URL"

Coding:

BER-TLV:	D0	18	81	03	01	15	03	82	02	81	82	31
	00	05	0B	44	65	66	61	75	6C	74	20	55
	52	4C										

TERMINAL RESPONSE: LAUNCH BROWSER 2.2.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: close the existing browser session and launch new browser session
Device identities
    Source device: ME
    Destination device: UICC
Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	03	82	02	82	81	83	01	00

Expected Sequence 2.3 (LAUNCH BROWSER, if not already launched)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a browser session (not default URL)..	[Browser is in use, the current session is not secured]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 2.3.1	[connect to the default URL, "launch browser, if not already launched]
4	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 2.3.1	[ME unable to process command - browser unavailable]
5	UICC → ME	PROACTIVE UICC SESSION ENDED	
6	USER → ME	The user verifies that the default URL has not been connected. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 2.3.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty

Coding:

BER-TLV:	D0	0B	81	03	01	15	00	82	02	81	82	31
	00											

TERMINAL RESPONSE: LAUNCH BROWSER 2.3.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Launch browser generic error code
Additional data Browser unavailable

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	02	26
	02											

27.22.4.26.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.3.

27.22.4.26.3 LAUNCH BROWSER (UCS2 display in Cyrillic)

27.22.4.26.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.3.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

27.22.4.26.3.3 Test purpose

To verify that the ME performs a proper user confirmation with an USC2 alpha identifier, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.3.4 Method of test

27.22.4.26.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default browser parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default browser parameters.

The mobile is busy in a browser session, the user navigates in pages different from the URL defined by default in Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

27.22.4.26.3.4.2 Procedure

Expected Sequence 3.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL, UCS2 in Cyrillic)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a browser session (not default URL)..	[Browser is in use, the current session is not secured]]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 3.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 3.1.1	[connect to the default URL, "use the existing browser", alpha id. In UCS2]
4	ME → USER	ME displays the alpha identifier "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 3.1.1	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 3.1.1

Logically:

Command details
  Command number: 1
  Command type: LAUNCH BROWSER
  Command qualifier: use the existing browser
Device identities
  Source device: UICC
  Destination device: ME
  URL empty
Alpha Identifier
  Data coding scheme: UCS2 (16 bits)
  Text: "ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	26	81	03	01	15	02	82	02	81	82	31
	00	05	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								

TERMINAL RESPONSE: LAUNCH BROWSER 3.1.1

Logically:

Command details
  Command number: 1
  Command type: LAUNCH BROWSER
  Command qualifier: use the existing browser
Device identities
  Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

27.22.4.26.3.5 Test Requirement

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

27.22.4.26.4 LAUNCH BROWSER (icons support)

27.22.4.26.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.4.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

27.22.4.26.4.3 Test purpose

To verify that the ME performs a proper user confirmation with an icon identifier, launches the browser session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.4.4 Method of test

27.22.4.26.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default browser parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default browser parameters.

The mobile is busy in a browser session, the user navigates in pages different from the URL defined by default in browser parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

27.22.4.26.4.4.2 Procedure

Expected Sequence 4.1A (LAUNCH BROWSER, use the existing browser, icon not self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.1.1	[Browser is in use, the current session is not secured]]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 4.1.1	[connect to the default URL, "use the existing browser", no null alpha id.]
4	ME → USER	ME displays the alpha identifier and the icon	["Not self explan."]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 A	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 4.1.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: use the existing browser
Device identities
    Source device: UICC
    Destination device: ME
    URL empty
Alpha Identifier "Not self explan."
Icon identifier:
    Icon qualifier: not self-explanatory
    Icon identifier: record 1 in EF$_{(IMG)}$

Coding:

BER-TLV:	D0	21	81	03	01	15	02	82	02	81	82	31
	00	05	10	4E	6F	74	20	73	65	6C	66	20
	65	78	70	6C	61	6^{E}	2^{E}	1E	02	01	01	

TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 A

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: use the existing browser
Device identities
    Source device: ME
    Destination device: UICC

Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

Expected Sequence 4.1B (LAUNCH BROWSER, use the existing browser, icon not self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.1.1	[Browser is in use, the current session is not secured]]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 4.1.1	[connect to the default URL, "use the existing browser", no null alpha id.]
4	ME → USER	ME displays the alpha identifier Without the icon	["Not self explan."]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 B	[Command performed successfully but requested icon could not be displayed]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 B

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: use the existing browser
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	04

Expected Sequence 4.2A (LAUNCH BROWSER, use the existing browser, icon self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.2.1	[Browser is in use, the current session is not secured]]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 4.2.1	[connect to the default URL, "use the existing browser", alpha id. In UCS2]
4	ME → USER	ME displays only the icon	["Self explan."]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 A	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 4.2.1

Logically:

Command details
  Command number: 1
  Command type: LAUNCH BROWSER
  Command qualifier: use the existing browser
Device identities
  Source device: UICC
  Destination device: ME
  URL empty
Alpha Identifier "Self explan."
Icon identifier:
  Icon qualifier: self-explanatory
  Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	1D	81	03	01	15	02	82	02	81	82	31
	00	05	0C	53	65	6C	66	20	65	78	70	6C
	61	6^E	2^E	1E	02	00	01					

TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 A

Logically:

Command details
  Command number: 1
  Command type: LAUNCH BROWSER
  Command qualifier: use the existing browser
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

Expected Sequence 4.2B (LAUNCH BROWSER, use the existing browser, icon self explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.2.1	[Browser is in use, the current session is not secured]]
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 4.2.1	[connect to the default URL, "use the existing browser", alpha id. In UCS2]
4	ME → USER	ME displays only the alpha identifier	["Self explan."]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 B	[Command performed successfully] [Command performed successfully but requested icon could not be displayed]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 B

Logically:

Command details
  Command number: 1
  Command type: LAUNCH BROWSER
  Command qualifier: use the existing browser
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	04

27.22.4.26.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 4.1A to 4.2B.

27.22.4.26.5 LAUNCH BROWSER (support of Text Attribute)

27.22.4.26.5.1 LAUNCH BROWSER (support of Text Attribute – Left Alignment)

27.22.4.26.5.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.1.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111[15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.1.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the left alignment text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.1.4 Method of test

27.22.4.26.5.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode.

27.22.4.26.5.1.4.2 Procedure

Expected Sequence 5.1 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.1.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with left alignment]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.1.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.1.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.1.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/18, no alignment change will take place]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.1.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.1.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL empty

Alpha Identifier "Default URL 1"
Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.1.2

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 2"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32								

TERMINAL RESPONSE: LAUNCH BROWSER 5.1.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.1.

27.22.4.26.5.2 LAUNCH BROWSER (support of Text Attribute – Center Alignment)

27.22.4.26.5.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.2.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.2.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the center alignment text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.2.4 Method of test

27.22.4.26.5.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode.

27.22.4.26.5.2.4.2 Procedure

Expected Sequence 5.2 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.2.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with center alignment]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.2.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.2.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.2.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/18, no alignment change will take place]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.2.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.2.1

Logically:

Command details
  Command number: 1
  Command type: LAUNCH BROWSER
  Command qualifier: launch browser, if not already launched
Device identities
  Source device: UICC
  Destination device: ME
  URL empty

Alpha Identifier "Default URL 1"
Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	01	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.2.2

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 2"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32								

TERMINAL RESPONSE: LAUNCH BROWSER 5.2.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.2.

27.22.4.26.5.3 LAUNCH BROWSER (support of Text Attribute – Right Alignment)

27.22.4.26.5.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.3.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.3.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the right alignment text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.3.4 Method of test

27.22.4.26.5.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode.

27.22.4.26.5.3.4.2 Procedure

Expected Sequence 5.3 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.3.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with right alignment]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.3.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.3.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.3.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/18, no alignment change will take place]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.3.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.3.1

Logically:

Command details

Command number:	1
Command type:	LAUNCH BROWSER
Command qualifier:	launch browser, if not already launched

Device identities

Source device:	UICC
Destination device:	ME
URL	empty

Alpha Identifier "Default URL 1"
Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	02	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.3.2

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 2"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32								

TERMINAL RESPONSE: LAUNCH BROWSER 5.3.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.3.

27.22.4.26.5.4 LAUNCH BROWSER (support of Text Attribute – Large Font Size)

27.22.4.26.5.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.4.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.&&& [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.4.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the large font size text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.4.4 Method of test

27.22.4.26.5.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode.

27.22.4.26.5.4.4.2 Procedure

Expected Sequence 5.4 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.4.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with large font size]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.4.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.4.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.4.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.4.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with large font size]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1	[Command performed successfully]
25	ME□USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	

27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.4.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.4.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.4.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL empty
Alpha Identifier "Default URL 1"
Text Attribute
        Formatting position: 0
        Formatting length: 13
        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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	04	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.4.2

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC

Destination device: ME
URL empty
Alpha Identifier "Default URL 2"
Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.4.3

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.4.

27.22.4.26.5.5 LAUNCH BROWSER (support of Text Attribute – Small Font Size)

27.22.4.26.5.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.5.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.5.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the small font size text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.5.4 Method of test

27.22.4.26.5.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode.

27.22.4.26.5.5.4.2 Procedure

Expected Sequence 5.5 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.5.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with small font size]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.5.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.5.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.5.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.5.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with small font size]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1	[Command performed successfully]
25	ME□USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	

27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.5.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.5.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.5.1

Logically:

Command details
  Command number: 1
  Command type: LAUNCH BROWSER
  Command qualifier: launch browser, if not already launched
Device identities
  Source device: UICC
  Destination device: ME
  URL empty
Alpha Identifier "Default URL 1"
Text Attribute
  Formatting position: 0
  Formatting length: 13
  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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	08	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.5.2

Logically:

Command details
  Command number: 1
  Command type: LAUNCH BROWSER
  Command qualifier: launch browser, if not already launched
Device identities
  Source device: UICC

Destination device: ME
URL empty
Alpha Identifier "Default URL 2"
Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.5.3

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.5.

27.22.4.26.5.6 LAUNCH BROWSER (support of Text Attribute – Bold on)

27.22.4.26.5.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.6.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.6.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the bold text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.6.4 Method of test

27.22.4.26.5.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode.

27.22.4.26.5.6.4.2 Procedure

Expected Sequence 5.6 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.6.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with bold on]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.6.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.6.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with bold off]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.6.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.6.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with bold on]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1	[Command performed successfully]
25	ME□USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	

27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.6.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.6.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with bold off]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.6.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 1"
Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	10	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.6.2

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME

URL empty
Alpha Identifier "Default URL 2"
Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.6.3

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.6.

27.22.4.26.5.7 LAUNCH BROWSER (support of Text Attribute – Italic On)

27.22.4.26.5.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.7.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.7.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the italic text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.7.4 Method of test

27.22.4.26.5.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode.

27.22.4.26.5.7.4.2 Procedure

Expected Sequence 5.7 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.7.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with italic on]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.7.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.7.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with italic off]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.7.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.7.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with italic on]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1	[Command performed successfully]
25	ME□USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	

27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.7.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.7.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with italic off]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.7.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL empty
Alpha Identifier "Default URL 1"
Text Attribute
        Formatting position: 0
        Formatting length: 13
        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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	20	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.7.2

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME

URL empty
Alpha Identifier "Default URL 2"
Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.7.3

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.7.

27.22.4.26.5.8 LAUNCH BROWSER (support of Text Attribute – Underline On)

27.22.4.26.5.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.8.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.8.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the underline text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.8.4 Method of test

27.22.4.26.5.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode.

27.22.4.26.5.8.4.2 Procedure

Expected Sequence 5.8 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.8.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with underline on]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.8.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.8.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with underline off]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.8.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.8.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with underline on]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1	[Command performed successfully]
25	ME□USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	

27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.8.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.8.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with underline off]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.8.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL empty
Alpha Identifier "Default URL 1"
Text Attribute
    Formatting position: 0
    Formatting length: 13
    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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	40	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.8.2

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME

URL empty
Alpha Identifier "Default URL 2"
Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.8.3

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.8.

27.22.4.26.5.9 LAUNCH BROWSER (support of Text Attribute – Strikethrough On)

27.22.4.26.5.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.9.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.9.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the strikethrough text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.9.4 Method of test

27.22.4.26.5.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode.

27.22.4.26.5.9.4.2 Procedure

Expected Sequence 5.9 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.9.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough on]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.9.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.9.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough off]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
19	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.9.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.9.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
22	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough on]
23	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
24	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1	[Command performed successfully]
25	ME□USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
26	UICC → ME	PROACTIVE UICC SESSION ENDED	

27	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
28	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.9.3	
29	ME → UICC	FETCH	
30	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.9.3	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
31	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough off]
32	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
33	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1	[Command performed successfully]
34	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
35	UICC → ME	PROACTIVE UICC SESSION ENDED	
36	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.9.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL empty
Alpha Identifier "Default URL 1"
Text Attribute
        Formatting position: 0
        Formatting length: 13
        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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	80	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.9.2

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC

Destination device: ME
URL empty
Alpha Identifier "Default URL 2"
Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.9.3

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 3"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	33								

TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.9.

27.22.4.26.5.10 LAUNCH BROWSER (support of Text Attribute – Foreground and Background Colour)

27.22.4.26.5.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.10.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.10.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the foreground and background colour text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.10.4 Method of test

27.22.4.26.5.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode.

27.22.4.26.5.10.4.2 Procedure

Expected Sequence 5.10 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.10.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
4	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with foreground and background colour according to the text attribute configuration]
5	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.10.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	
10	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.10.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.10.2	[connect to the default URL, "launch browser, if not already launched", no null alpha id]
13	ME → USER	ME displays the alpha identifier	[alpha identifier is displayed with ME"s default foreground and background colour]
14	USER → ME	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 5.10.1	[Command performed successfully]
16	ME → USS	The ME attempts to launch the session with the default Wap parameters and the default URL.	
17	UICC → ME	PROACTIVE UICC SESSION ENDED	
18	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 5.10.1

Logically:

Command details
    Command number: 1
    Command type: LAUNCH BROWSER
    Command qualifier: launch browser, if not already launched
Device identities
    Source device: UICC
    Destination device: ME
    URL empty
Alpha Identifier "Default URL 1"

Text Attribute
Formatting position: 0
Formatting length: 13
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	20	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	31	D0	04	00	0D	00	B4		

PROACTIVE COMMAND: LAUNCH BROWSER 5.10.2

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: UICC
Destination device: ME
URL empty
Alpha Identifier "Default URL 2"

Coding:

BER-TLV:	D0	1A	81	03	01	15	00	82	02	81	82	31
	00	05	0D	44	65	66	61	75	6C	74	20	55
	52	4C	20	32								

TERMINAL RESPONSE: LAUNCH BROWSER 5.10.1

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

27.22.4.26.5.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.10.

27.22.4.26.6 LAUNCH BROWSER (UCS2 Display in Chinese)

27.22.4.26.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.6.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.26.6.3 Test purpose

To verify that the ME performs a proper user confirmation with an USC2 alpha identifier, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.6.4 Method of test

27.22.4.26.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

  With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The mobile is busy in a Wap session, the user navigates in pages different from the URL defined by default in Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

27.22.4.26.6.4.2 Procedure

Expected Sequence 6.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL, UCS2 in Chinese)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a Wap session (not default URL).	[Browser is in use, the current session is not secured]]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 6.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 6.1.1	[connect to the default URL, "use the existing browser", alpha id. In UCS2]
4	ME → USER	ME displays the alpha identifier "你好"	["Hello" in Chinese]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 6.1.1	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 6.1.1

Logically:

Command details
  Command number: 1
  Command type: LAUNCH BROWSER
  Command qualifier: use the existing browser
Device identities
  Source device: UICC
  Destination device: ME
  URL empty
Alpha Identifier
  Data coding scheme: UCS2 (16 bits)
  Text: "你好"

Coding:

BER-TLV:	D0	12	81	03	01	15	02	82	02	81	82	31
	00	05	05	80	4F	60	59	7D				

TERMINAL RESPONSE: LAUNCH BROWSER 6.1.1

Logically:

Command details
  Command number: 1
  Command type: LAUNCH BROWSER
  Command qualifier: use the existing browser
Device identities
  Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

27.22.4.26.6.5 Test requirement

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

27.22.4.26.7 LAUNCH BROWSER (UCS2 Display in Katakana)

27.22.4.26.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.7.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.26.7.3 Test purpose

To verify that the ME performs a proper user confirmation with an USC2 alpha identifier, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.7.4 Method of test

27.22.4.26.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The mobile is busy in a Wap session, the user navigates in pages different from the URL defined by default in Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

27.22.4.26.7.4.2 Procedure

Expected Sequence 7.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL, UCS2 in Katakana)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a Wap session (not default URL).	[Browser is in use, the current session is not secured]]
1	UICC → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 7.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 7.1.1	[connect to the default URL, "use the existing browser", alpha id. In UCS2]
4	ME → USER	ME displays the alpha identifier "ル"	[Character in Katakana]
5	USER → ME	The user confirms the launch browser.	[user confirmation]
6	ME → UICC	TERMINAL RESPONSE: LAUNCH BROWSER 7.1.1	[Command performed successfully]
7	ME→USS	The ME does not close the existing session and attempts to connect the default URL.	
8	UICC → ME	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the default URL is connected; and the previous URL can be retrieved. Then he/she ends the navigation with the default URL.	

PROACTIVE COMMAND: LAUNCH BROWSER 7.1.1

Logically:

Command details
- Command number: 1
- Command type: LAUNCH BROWSER
- Command qualifier: use the existing browser

Device identities
- Source device: UICC
- Destination device: ME
- URL empty

Alpha Identifier
- Data coding scheme: UCS2 (16 bits)
- Text: "ル"

Coding:

BER-TLV:	D0	10	81	03	01	15	02	82	02	81	82	31
	00	05	03	80	30	EB						

TERMINAL RESPONSE: LAUNCH BROWSER 7.1.1

Logically:

Command details
- Command number: 1
- Command type: LAUNCH BROWSER
- Command qualifier: use the existing browser

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

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00

27.22.4.26.7.5 Test requirement

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

27.22.4.27 OPEN CHANNEL

27.22.4.27.1 Void

27.22.4.27.2 Open Channel (related to GPRS)

27.22.4.27.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.2.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111[15] 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..

27.22.4.27.2.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (OK); or
- TERMINAL RESPONSE (Command performed with modification); or
- TERMINAL RESPONSE (User did not accept the proactive command);
- TERMINAL RESPONSE (ME currently unable to process command);

to the UICC after the ME receives the OPEN CHANNEL proactive command. The TERMINAL RESPONSE sent back to the UICC is the result of the ME and the network capabilities against requested parameters by the UICC.

27.22.4.27.2.4 Method of test

27.22.4.27.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

The following Bearer Parameters used are those defined in the default Test PDP context for test cases using packet services:

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP ContextDch, as specified in TS 34.123-3 [27], clause 8.10 for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

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.

Pre-condition for successful execution of expected sequence 2.1:

If the terminal does not support the execution of an Open Channel (GPRS) command when no Network Access Name TLV is present in the proactive command and when no default Access Point Name is set in the terminal configuration (s.a. table A.1/48), then "TestGp.rs" shall be set and activated as default Access Point Name in the terminal configuration prior to execution of the proactive command in expected sequence 2.1.

27.22.4.27.2.4.2 Procedure

Expected Sequence 2.1 (OPEN CHANNEL, immediate link establishment, GPRS, no local address, no alpha identifier, no network access name)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Set and activate APN "TestGp.rs" in the terminal configuration if required	[see initial conditions]
2	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.1.1	
3	ME → UICC	FETCH	
4	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.1.1	
5	ME → user	The ME may display channel opening information	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 2.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 2.1.1B	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.1.1

Logically:

Command details

Command number:	1
Command type:	OPEN CHANNEL
Command qualifier:	immediate link establishment

Device identities

Source device:	UICC

Destination device: ME
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	03	04	03	04	1F	02	39	02	05	78
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.1.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 2.1.1B

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: ME
    Destination device: UICC
Result
General Result: Command performed successfully
    Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 00
    Delay Class: 04
    Reliability Class: 03
    Peak throughput class: 04
    Mean throughput class: 31
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

Expected Sequence 2.2 (OPEN CHANNEL, immediate link establishment GPRS, no alpha identifier, with network access name)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 2.2.1	
4	ME → user	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 2.2.1A or TERMINAL RESPONSE: OPEN CHANNEL 2.2.1B	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.2.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 03
    Delay Class: 04

Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	03	04	03	04	1F	02	39	02	05	78
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.2.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer Description:
Bearer Type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 2.2.1B

Logically:

Command details
Command number: 1

Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer Description:
Bearer Type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

Expected Sequence 2.3 (OPEN CHANNEL, immediate link establishment, GPRS, with alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 2.3.1	
4	ME → user	Confirmation phase with alpha ID	'Open ID'
5	user → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 2.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 2.1.1B	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.3.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier Open ID
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31

Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4B	81	03	01	40	01	82	02	81	82	05
	07	4F	70	65	6E	20	49	44	35	07	02	03
	04	03	04	1F	02	39	02	05	78	47	0A	06
	54	65	73	74	47	70	02	72	73	0D	08	F4
	55	73	65	72	4C	6F	67	0D	08	F4	55	73
	65	72	50	77	64	3C	03	01	AD	9C	3E	05
	21	01	01	01	01							

Expected Sequence 2.4 (OPEN CHANNEL, immediate link establishment, GPRS, with null alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 2.4.1	
4	ME → user	Confirmation phase	[The ME should not give any information]
5	user → ME	The user confirms	[Only if the ME asks for user confirmation]
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 2.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 2.1.1B	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.4.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Alpha Identifier Null
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31

Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Other Address
Length: 00
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	46	81	03	01	40	01	82	02	81	82	05
	00	35	07	02	03	04	03	04	1F	02	39	02
	05	78	47	0A	06	54	65	73	74	47	70	02
	72	73	3E	00	0D	08	F4	55	73	65	72	4C
	6F	67	0D	08	F4	55	73	65	72	50	77	64
	3C	03	01	AD	9C	3E	05	21	01	01	01	01

Expected Sequence 2.5 (OPEN CHANNEL, immediate link establishment, GPRS, command performed with modifications (buffer size))

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 2.5.1	
4	ME → user	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 2.5.1A or TERMINAL RESPONSE: OPEN CHANNEL 2.5.1B	[Command performed with modification]

PROACTIVE COMMAND: OPEN CHANNEL 2.5.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer
Buffer size: 65535
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	03	04	03	04	1F	02	39	02	FF	FF
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.5.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed with modifications (07)
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
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	01	82	02	82	81	83	01	07
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	Note 1										

Note1: 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".

TERMINAL RESPONSE: OPEN CHANNEL 2.5.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL

Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed with modifications (07)
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
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	01	82	02	82	81	83	01	07
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	Note 1										

Note1: 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 2.6 Void

Expected Sequence 2.7A (OPEN CHANNEL, immediate link establishment, GPRS, open command with alpha identifier, User did not accept the proactive command)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 2.7.1	
4	ME → user	Confirmation phase with alpha ID	[The ME shall display 'Open ID']
5	user → ME	The user rejects	
6	ME → USS	No PDP context activation request is sent to the USS	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 2.7.1A or TERMINAL RESPONSE: OPEN CHANNEL 2.7.1B	[User did not accept the proactive command]

Expected Sequence 2.7B (OPEN CHANNEL, immediate link establishment, GPRS, open command with alpha identifier, User did not accept the proactive command)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 2.7.1	
4	ME → USS	PDP context activation request	
5	USS → ME	PDP context activation accept	
6	ME → user	Confirmation phase with alpha ID	[The ME shall display 'Open ID']
7	user → ME	The user rejects	
8	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 2.7.1A or TERMINAL RESPONSE: OPEN CHANNEL 2.7.1B	[User did not accept the proactive command]

PROACTIVE COMMAND: OPEN CHANNEL 2.7.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier "Open ID"
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 03
    Delay Class: 04
    Reliability Class: 03
    Peak throughput class: 04
    Mean throughput class: 31
    Packet data protocol: 02 (IP)
Buffer
        Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
        Transport format: UDP
        Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4B	81	03	01	40	01	82	02	81	82	05
	07	4F	70	65	6E	20	49	44	35	07	02	03
	04	03	04	1F	02	39	02	05	78	47	0A	06
	54	65	73	74	47	70	02	72	73	0D	08	F4
	55	73	65	72	4C	6F	67	0D	08	F4	55	73
	65	72	50	77	64	3C	03	01	AD	9C	3E	05
	21	01	01	01	01							

TERMINAL RESPONSE: OPEN CHANNEL 2.7.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: User did not accept the proactive command
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: Because the value depends in this case on the terminal's implementation, it shall be ignored.

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	22
	35	07	02	03	04	03	04	1F	02	Note 1		

Note1: The buffer size TLV shall be present and because the value depends in this case on the terminal's implementation, the value shall be ignored.

TERMINAL RESPONSE: OPEN CHANNEL 2.7.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: User did not accept the proactive command
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: Because the value depends in this case on the terminal's implementation, it shall be ignored.

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	22
	35	07	02	00	04	03	04	1F	02	Note 1		

Note1: The buffer size TLV shall be present and because the value depends in this case on the terminal's implementation, the value shall be ignored.

Expected Sequence 2.8 Void

27.22.4.27.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.8.

27.22.4.27.3 Open Channel (default bearer)

TBD

27.22.4.27.4 Open Channel (Local Bearer)

TBD

27.22.4.27.5 Open Channel (GPRS, support of Text Attribute)

27.22.4.27.5.1 Open Channel (GPRS, support of Text Attribute – Left Alignment)

27.22.4.27.5.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.27.5.1.3 Test purpose

To verify that the ME displays an alpha identifier according to the left alignment text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.1.4 Method of test

27.22.4.27.5.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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 ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04

Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.1.4.2 Procedure

Expected Sequence 5.1 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.1.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with left alignment]
5	USER → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 5.1.1B	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → USS	PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.2	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.1.2	
18	ME → USER	Confirmation phase with alpha ID	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/19, no alignment change will take place]
19	USER → ME	The user confirms	
20	ME → USS	PDP context activation request	
21	USS → ME	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 5.1.1B	[Command performed successfully]
23	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	ME → USS	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	
28	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.1.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities

Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 1"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.1.2

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
  Transport format: UDP
  Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1

Logically:

Command details
  Command number: 1
  Command type: CLOSE CHANNEL
  Command qualifier: RFU
Device identities
  Source device: UICC
  Destination device:Channel
Alpha Identifier "Close ID"

Coding:

BER-TLV:	D0	14	81	03	01	41	00	82	02	81	21
	85	08	43	6C	6F	73	65	20	49	44	

TERMINAL RESPONSE: OPEN CHANNEL 5.1.1A

Logically:

Command details
  Command number: 1
  Command type: OPEN CHANNEL
  Command qualifier: immediate link establishment
Device identities
  Source device: ME
  Destination device: UICC
Result
General Result: Command performed successfully
  Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
  Bearer type: GPRS
  Bearer parameter:
  Precedence Class: 03
  Delay Class: 04
  Reliability Class: 03
  Peak throughput class: 04
  Mean throughput class: 31
  Packet data protocol: 02 (IP)
Buffer
  Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 5.1.1B

Logically:

- Command details
  - Command number: 1
  - Command type: OPEN CHANNEL
  - Command qualifier: immediate link establishment
- Device identities
  - Source device: ME
  - Destination device: UICC
- Result
- General Result: Command performed successfully
  - Channel status Channel identifier 1 and link established or PDP context activated
- Bearer description
  - Bearer type: GPRS
  - Bearer parameter:
  - Precedence Class: 00
  - Delay Class: 04
  - Reliability Class: 03
  - Peak throughput class: 04
  - Mean throughput class: 31
  - Packet data protocol: 02 (IP)
- Buffer
  - Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1

Logically:

- Command details
  - Command number: 1
  - Command type: CLOSE CHANNEL
  - Command qualifier: RFU
- Device identities
  - Source device: ME
  - Destination device: UICC
- Result
  - General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.27.5.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.1.

27.22.4.27.5.2 Open Channel (GPRS, support of Text Attribute – Center Alignment)

27.22.4.27.5.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.2.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.27.5.2.3 Test purpose

To verify that the ME displays an alpha identifier according to the center alignment text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.2.4 Method of test

27.22.4.27.5.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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 ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.2.4.2 Procedure

Expected Sequence 5.2 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.2.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.2.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with center alignment]
5	USER → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.2.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.2.1B	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → USS	PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.2.2	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.2.2	
18	ME → USER	Confirmation phase with alpha ID	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/19, no alignment change will take place]
19	USER → ME	The user confirms	
20	ME → USS	PDP context activation request	
21	USS → ME	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.2.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.2.1B	[Command performed successfully]
23	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	ME → USS	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	
28	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.2.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities

Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 1"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	01
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.2.2

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.2.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 5.2.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 1 and link established or PDP context activated

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

27.22.4.27.5.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.2.

27.22.4.27.5.3 Open Channel (GPRS, support of Text Attribute – Right Alignment)

27.22.4.27.5.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.3.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.27.5.3.3 Test purpose

To verify that the ME displays an alpha identifier according to the right alignment text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.3.4 Method of test

27.22.4.27.5.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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 ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.3.4.2 Procedure

Expected Sequence 5.3 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.3.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.3.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with right alignment]
5	USER → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.3.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.3.1B	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → USS	PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.3.2	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.3.2	
18	ME → USER	Confirmation phase with alpha ID	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/19, no alignment change will take place]
19	USER → ME	The user confirms	
20	ME → USS	PDP context activation request	
21	USS → ME	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.3.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.3.1B	[Command performed successfully]
23	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	ME → USS	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	
28	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.3.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities

Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 1"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	02
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.3.2

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
  Transport format: UDP
  Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.3.1A

Logically:

Command details
  Command number: 1
  Command type: OPEN CHANNEL
  Command qualifier: immediate link establishment
Device identities
  Source device: ME
  Destination device: UICC
Result
General Result: Command performed successfully
  Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
  Bearer type: GPRS
  Bearer parameter:
  Precedence Class: 03
  Delay Class: 04
  Reliability Class: 03
  Peak throughput class: 04
  Mean throughput class: 31
  Packet data protocol: 02 (IP)
Buffer
  Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 5.3.1B

Logically:

Command details
  Command number: 1
  Command type: OPEN CHANNEL
  Command qualifier: immediate link establishment
Device identities
  Source device: ME
  Destination device: UICC

Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

27.22.4.27.5.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.3.

27.22.4.27.5.4 Open Channel (GPRS, support of Text Attribute – Large Font Size)

27.22.4.27.5.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.4.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.27.5.4.3 Test purpose

To verify that the ME displays an alpha identifier according to the large font size text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.4.4 Method of test

27.22.4.27.5.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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 ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.27.5.4.4.2 Procedure

Expected Sequence 5.4 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.4.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.4.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with large font size]
5	USER → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → USS	PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.2	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.4.2	
18	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with normal font size]
19	USER → ME	The user confirms	
20	ME → USS	PDP context activation request	
21	USS → ME	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B	[Command performed successfully]
23	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	ME → USS	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	
28	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
29	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.4.1	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.4.1	
32	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with large font size]
33	USER → ME	The user confirms	
34	ME → USS	PDP context activation request	
35	USS → ME	PDP context activation accept	
36	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B	[Command performed successfully]

37	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
40	ME → USS	PDP context deactivation request	
41	USS → ME	PDP context deactivation accept	
42	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.3	
44	ME → UICC	FETCH	
45	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.4.3	
46	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with normal font size]
47	USER → ME	The user confirms	
48	ME → USS	PDP context activation request	
49	USS → ME	PDP context activation accept	
50	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B	[Command performed successfully]
51	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
52	ME → UICC	FETCH	
53	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
54	ME → USS	PDP context deactivation request	
55	USS → ME	PDP context deactivation accept	
56	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.4.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier "Open ID 1"
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 03
    Delay Class: 04
    Reliability Class: 03
    Peak throughput class: 04
    Mean throughput class: 31
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address 01.01.01.01
Text Attribute

Formatting position: 0
Formatting length: 9
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	04
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.4.2

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.4.3

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 3"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.4.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC

Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 5.4.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

27.22.4.27.5.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.4.

27.22.4.27.5.5 Open Channel (GPRS, support of Text Attribute – Small Font Size)

27.22.4.27.5.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.5.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.27.5.5.3 Test purpose

To verify that the ME displays an alpha identifier according to the small font size text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.5.4 Method of test

27.22.4.27.5.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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 ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.5.4.2 Procedure

Expected Sequence 5.5 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.5.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.5.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with small font size]
5	USER → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.5.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.5.1B	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → USS	PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.5.2	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.5.2	
18	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with normal font size]
19	USER → ME	The user confirms	
20	ME → USS	PDP context activation request	
21	USS → ME	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.5.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.5.1B	[Command performed successfully]
23	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	ME → USS	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	
28	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
29	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.5.1	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.5.1	
32	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with small font size]
33	USER → ME	The user confirms	
34	ME → USS	PDP context activation request	
35	USS → ME	PDP context activation accept	
36	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.5.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.5.1B	[Command performed successfully]

37	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
40	ME → USS	PDP context deactivation request	
41	USS → ME	PDP context deactivation accept	
42	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.5.3	
44	ME → UICC	FETCH	
45	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.5.3	
46	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with normal font size]
47	USER → ME	The user confirms	
48	ME → USS	PDP context activation request	
49	USS → ME	PDP context activation accept	
50	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.5.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.5.1B	[Command performed successfully]
51	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
52	ME → UICC	FETCH	
53	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
54	ME → USS	PDP context deactivation request	
55	USS → ME	PDP context deactivation accept	
46	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.5.1

Logically:

- Command details
  - Command number: 1
  - Command type: OPEN CHANNEL
  - Command qualifier: immediate link establishment
- Device identities
  - Source device: UICC
  - Destination device: ME
- Alpha Identifier "Open ID 1"
- Bearer
  - Bearer type: GPRS
  - Bearer parameter:
  - Precedence Class: 03
  - Delay Class: 04
  - Reliability Class: 03
  - Peak throughput class: 04
  - Mean throughput class: 31
  - Packet data protocol: 02 (IP)
- Buffer
  - Buffer size: 1400
- Network access name: TestGp.rs
- Text String: UserLog (User login)
- Text String: UserPwd (User password)
- UICC/ME interface transport level
  - Transport format: UDP
  - Port number: 44444
- Data destination address 01.01.01.01
- Text Attribute

Formatting position: 0
Formatting length: 9
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	08
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.5.2

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 03
    Delay Class: 04
    Reliability Class: 03
    Peak throughput class: 04
    Mean throughput class: 31
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address 01.01.01.01
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.5.3

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 3"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.5.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC

Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 5.5.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

27.22.4.27.5.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.5.

27.22.4.27.5.6 Open Channel (GPRS, support of Text Attribute – Bold On)

27.22.4.27.5.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.6.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.27.5.6.3 Test purpose

To verify that the ME displays an alpha identifier according to the bold text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.6.4 Method of test

27.22.4.27.5.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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 ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd
UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.27.5.6.4.2 Procedure

Expected Sequence 5.6 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.6.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.6.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with bold on]
5	USER → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.6.1B	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → USS	PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.6.2	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.6.2	
18	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with bold off]
19	USER → ME	The user confirms	
20	ME → USS	PDP context activation request	
21	USS → ME	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.6.1B	[Command performed successfully]
23	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	ME → USS	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	
28	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
29	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.6.1	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.6.1	
32	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with bold on]
33	USER → ME	The user confirms	
34	ME → USS	PDP context activation request	
35	USS → ME	PDP context activation accept	
36	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.6.1B	[Command performed successfully]

37	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
40	ME → USS	PDP context deactivation request	
41	USS → ME	PDP context deactivation accept	
42	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.6.3	
44	ME → UICC	FETCH	
45	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.6.3	
46	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with bold off]
47	USER → ME	The user confirms	
48	ME → USS	PDP context activation request	
49	USS → ME	PDP context activation accept	
50	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.6.1B	[Command performed successfully]
51	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
52	ME → UICC	FETCH	
53	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
54	ME → USS	PDP context deactivation request	
55	USS → ME	PDP context deactivation accept	
56	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.6.1

Logically:

Command details	
Command number:	1
Command type:	OPEN CHANNEL
Command qualifier:	immediate link establishment
Device identities	
Source device:	UICC
Destination device:	ME
Alpha Identifier	"Open ID 1"
Bearer	
Bearer type:	GPRS
Bearer parameter:	
Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)
Buffer	
Buffer size:	1400
Network access name:	TestGp.rs
Text String:	UserLog (User login)
Text String:	UserPwd (User password)
UICC/ME interface transport level	
Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01
Text Attribute	

Formatting position: 0
Formatting length: 9
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	10
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.6.2

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.6.3

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier "Open ID 3"
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 03
    Delay Class: 04
    Reliability Class: 03
    Peak throughput class: 04
    Mean throughput class: 31
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.6.1A

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: ME
    Destination device: UICC

Result	
General Result:	Command performed successfully
Channel status	Channel identifier 1 and link established or PDP context activated
Bearer description	
Bearer type:	GPRS
Bearer parameter:	
Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)
Buffer	
Buffer size:	1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 5.6.1B

Logically:

Command details	
Command number:	1
Command type:	OPEN CHANNEL
Command qualifier:	immediate link establishment
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully
Channel status	Channel identifier 1 and link established or PDP context activated
Bearer description	
Bearer type:	GPRS
Bearer parameter:	
Precedence Class:	00
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)
Buffer	
Buffer size:	1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

27.22.4.27.5.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.6.

27.22.4.27.5.7 Open Channel (GPRS, support of Text Attribute – Italic On)

27.22.4.27.5.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.7.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.27.5.7.3 Test purpose

To verify that the ME displays an alpha identifier according to the italic text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.7.4 Method of test

27.22.4.27.5.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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 ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.7.4.2 Procedure

Expected Sequence 5.7 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.7.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with italic on]
5	USER → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → USS	PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.2	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.7.2	
18	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with italic off]
19	USER → ME	The user confirms	
20	ME → USS	PDP context activation request	
21	USS → ME	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B	[Command performed successfully]
23	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	ME → USS	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	
28	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
29	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.7.1	
32	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with italic on]
33	USER → ME	The user confirms	
34	ME → USS	PDP context activation request	
35	USS → ME	PDP context activation accept	
36	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B	[Command performed successfully]

37	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
40	ME → USS	PDP context deactivation request	
41	USS → ME	PDP context deactivation accept	
42	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.3	
44	ME → UICC	FETCH	
45	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.7.3	
46	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with italic off]
47	USER → ME	The user confirms	
48	ME → USS	PDP context activation request	
49	USS → ME	PDP context activation accept	
50	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B	[Command performed successfully]
51	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
52	ME → UICC	FETCH	
53	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
54	ME → USS	PDP context deactivation request	
55	USS → ME	PDP context deactivation accept	
56	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.7.1

Logically:

Command details	
Command number:	1
Command type:	OPEN CHANNEL
Command qualifier:	immediate link establishment
Device identities	
Source device:	UICC
Destination device:	ME
Alpha Identifier	"Open ID 1"
Bearer	
Bearer type:	GPRS
Bearer parameter:	
Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)
Buffer	
Buffer size:	1400
Network access name:	TestGp.rs
Text String:	UserLog (User login)
Text String:	UserPwd (User password)
UICC/ME interface transport level	
Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01
Text Attribute	

Formatting position: 0
Formatting length: 9
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	20
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.7.2

Logically:

Command details
  Command number: 1
  Command type: OPEN CHANNEL
  Command qualifier: immediate link establishment
Device identities
  Source device: UICC
  Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
  Bearer type: GPRS
  Bearer parameter:
  Precedence Class: 03
  Delay Class: 04
  Reliability Class: 03
  Peak throughput class: 04
  Mean throughput class: 31
  Packet data protocol: 02 (IP)
Buffer
  Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
  Transport format: UDP
  Port number: 44444
Data destination address 01.01.01.01
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.7.3

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Alpha Identifier "Open ID 3"
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 03
    Delay Class: 04
    Reliability Class: 03
    Peak throughput class: 04
    Mean throughput class: 31
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.7.1A

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: ME
    Destination device: UICC

Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 5.7.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

27.22.4.27.5.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.7.

27.22.4.27.5.8 Open Channel (GPRS, support of Text Attribute – Underline On)

27.22.4.27.5.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.8.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.27.5.8.3 Test purpose

To verify that the ME displays an alpha identifier according to the underline text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.8.4 Method of test

27.22.4.27.5.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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 ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.8.4.2 Procedure

Expected Sequence 5.8 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.8.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.8.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with underline on]
5	USER → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.8.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.8.1B	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → USS	PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.8.2	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.8.2	
18	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with underline off]
19	USER → ME	The user confirms	
20	ME → USS	PDP context activation request	
21	USS → ME	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 5.8.1A or TERMINAL RESPONSE: OPEN CHANNEL 5.8.1B	[Command performed successfully]
23	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	ME → USS	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	
28	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
29	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.8.1	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.8.1	
32	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with underline on]
33	USER → ME	The user confirms	
34	ME → USS	PDP context activation request	
35	USS → ME	PDP context activation accept	
36	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.8.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.8.1B	[Command performed successfully]

37	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
40	ME → USS	PDP context deactivation request	
41	USS → ME	PDP context deactivation accept	
42	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.8.3	
44	ME → UICC	FETCH	
45	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.8.3	
46	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with underline off]
47	USER → ME	The user confirms	
48	ME → USS	PDP context activation request	
49	USS → ME	PDP context activation accept	
50	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.8.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.8.1B	[Command performed successfully]
51	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
52	ME → UICC	FETCH	
53	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
54	ME → USS	PDP context deactivation request	
55	USS → ME	PDP context deactivation accept	
56	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.8.1

Logically:

Command details	
Command number:	1
Command type:	OPEN CHANNEL
Command qualifier:	immediate link establishment
Device identities	
Source device:	UICC
Destination device:	ME
Alpha Identifier	"Open ID 1"
Bearer	
Bearer type:	GPRS
Bearer parameter:	
Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)
Buffer	
Buffer size:	1400
Network access name:	TestGp.rs
Text String:	UserLog (User login)
Text String:	UserPwd (User password)
UICC/ME interface transport level	
Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01
Text Attribute	

Formatting position: 0
Formatting length: 9
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	40
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.8.2

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.8.3

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 3"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.8.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC

Result
General Result: Command performed successfully
  Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
  Bearer type: GPRS
  Bearer parameter:
  Precedence Class: 03
  Delay Class: 04
  Reliability Class: 03
  Peak throughput class: 04
  Mean throughput class: 31
  Packet data protocol: 02 (IP)
Buffer
  Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 5.8.1B

Logically:

Command details
  Command number: 1
  Command type: OPEN CHANNEL
  Command qualifier: immediate link establishment
Device identities
  Source device: ME
  Destination device: UICC
Result
General Result: Command performed successfully
  Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
  Bearer type: GPRS
  Bearer parameter:
  Precedence Class: 00
  Delay Class: 04
  Reliability Class: 03
  Peak throughput class: 04
  Mean throughput class: 31
  Packet data protocol: 02 (IP)
Buffer
  Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

27.22.4.27.5.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.8.

27.22.4.27.5.9 Open Channel (GPRS, support of Text Attribute – Strikethrough On)

27.22.4.27.5.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.9.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.27.5.9.3 Test purpose

To verify that the ME displays an alpha identifier according to the strikethrough text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.9.4 Method of test

27.22.4.27.5.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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 ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.9.4.2 Procedure

Expected Sequence 5.9 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.9.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with strikethrough on]
5	USER → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → USS	PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.9.2	
18	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with strikethrough off]
19	USER → ME	The user confirms	
20	ME → USS	PDP context activation request	
21	USS → ME	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B	[Command performed successfully]
23	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	ME → USS	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	
28	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
29	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.9.1	
32	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with strikethrough on]
33	USER → ME	The user confirms	
34	ME → USS	PDP context activation request	
35	USS → ME	PDP context activation accept	
36	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B	[Command performed successfully]

37	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
40	ME → USS	PDP context deactivation request	
41	USS → ME	PDP context deactivation accept	
42	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.3	
44	ME → UICC	FETCH	
45	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.9.3	
46	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with strikethrough off]
47	USER → ME	The user confirms	
48	ME → USS	PDP context activation request	
49	USS → ME	PDP context activation accept	
50	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B	[Command performed successfully]
51	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
52	ME → UICC	FETCH	
53	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
54	ME → USS	PDP context deactivation request	
55	USS → ME	PDP context deactivation accept	
56	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.9.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 1"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01
Text Attribute

Formatting position: 0
Formatting length: 9
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	80
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.9.2

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.9.3

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 3"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	33	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.9.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC

Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 5.9.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

27.22.4.27.5.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.9.

27.22.4.27.5.10 Open Channel (GPRS, support of Text Attribute – Foreground and Background Colour)

27.22.4.27.5.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.27.5.10.3 Test purpose

To verify that the ME displays an alpha identifier according to the foreground and background colour text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.10.4 Method of test

27.22.4.27.5.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

Prior to this test the ME 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 ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.5.10.4.2 Procedure

Expected Sequence 5.10 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.10.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.10.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with foreground and background colour according to the text attribute]
5	USER → ME	The user confirms	
6	ME → USS	PDP context activation request	
7	USS → ME	PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.10.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.10.1B	[Command performed successfully]
9	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	ME → UICC	FETCH	
11	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	ME → USS	PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
15	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.10.2	
16	ME → UICC	FETCH	
17	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.10.2	
18	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with ME"s default foreground and background colour]
19	USER → ME	The user confirms	
20	ME → USS	PDP context activation request	
21	USS → ME	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.10.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.10.1B	[Command performed successfully]
23	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	ME → USS	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	
28	ME → UICC	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 5.10.1

Logically:

Command details
  Command number: 1
  Command type: OPEN CHANNEL
  Command qualifier: immediate link establishment
Device identities
  Source device: UICC

Destination device: ME
Alpha Identifier "Open ID 1"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01
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	53	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	31	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01	D0	04	00	09	00
	B4											

PROACTIVE COMMAND: OPEN CHANNEL 5.10.2

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Alpha Identifier "Open ID 2"
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: TestGp.rs

Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4D	81	03	01	40	01	82	02	81	82	05
	09	4F	70	65	6E	20	49	44	20	32	35	07
	02	03	04	03	04	1F	02	39	02	05	78	47
	0A	06	54	65	73	74	47	70	02	72	73	0D
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4
	55	73	65	72	50	77	64	3C	03	01	AD	9C
	3E	05	21	01	01	01	01					

TERMINAL RESPONSE: OPEN CHANNEL 5.10.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	05	78							

TERMINAL RESPONSE: OPEN CHANNEL 5.10.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result

General Result: Command performed successfully
    Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 00
    Delay Class: 04
    Reliability Class: 03
    Peak throughput class: 04
    Mean throughput class: 31
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	05	78							

27.22.4.27.5.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.10.

27.22.4.28 CLOSE CHANNEL

27.22.4.28.1 CLOSE CHANNEL(normal)

27.22.4.28.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.1.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or
- TERMINAL RESPONSE (Bearer Independent Protocol Error);

to the UICC after the ME receives the CLOSE CHANNEL proactive command. The TERMINAL RESPONSE sent back to the UICC is function of the ME and the network capabilities against asked parameters by the UICC.

27.22.4.28.1.4 Method of Test

27.22.4.28.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The

corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27

The following Bearer Parameters used are those defined in the default Test PDP context for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.28.1.4.2 Procedure

Expected sequence 1.1 (CLOSE CHANNEL, successful)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1	
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	03	04	03	04	1F	02	39	02	03	E8
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	03	E8							

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	03	E8							

PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1

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 1.1.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities

Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

Expected sequence 1.2 (CLOSE CHANNEL, with an invalid channel identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.2.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1	
11	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 1.2.1	[Invalid channel number]

PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 2

Coding:

BER-TLV:	D0	09	81	03	01	41	00	82	02	81	22

TERMINAL RESPONSE: CLOSE CHANNEL 1.2.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME

Destination device: UICC
Result
General Result: Bearer Independent Protocol error
Additional Result: Channel identifier not valid

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	02	3A
	03											

Expected sequence 1.3 (CLOSE CHANNEL, on an already closed channel)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1	
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 1.1.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.3.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.3.1	
17	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 1.3.1A or TERMINAL RESPONSE CLOSE CHANNEL 1.3.1B	[Channel closed] [Channel identifier invalid]

PROACTIVE COMMAND: CLOSE CHANNEL 1.3.1

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 1.3.1A

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Bearer Independent Protocol error
    Additional Result: Channel closed

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	02	3A
	02											

TERMINAL RESPONSE: CLOSE CHANNEL 1.3.1B

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Bearer Independent Protocol error
    Additional Result: Channel identifier invalid

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	02	3A
	03											

27.22.4.28.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.4.28.2 CLOSE CHANNEL (support of Text Attribute)

27.22.4.28.2.1 CLOSE CHANNEL (support of Text Attribute – Left Alignment)

27.22.4.28.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.2.1.3 Test purpose

To verify that the ME shall display the alpha identifier according to the left alignment text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.1.4 Method of Test

27.22.4.28.2.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd
UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.28.2.1.4.2 Procedure

Expected sequence 2.1 (CLOSE CHANNEL, with Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.1.1A	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.1.1	[alpha identifier is displayed with left alignment]
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.1.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel opening information	
18	ME → USS	PDP context activation request	
19	USS → ME	PDP context activation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.1.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.1.2	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/20, no alignment change will take place]
24	ME → USS	PDP context deactivation request	
25	USS → ME	PDP context deactivation accept	
26	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.1.1

Logically:

Command details

Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 1"
Text Attribute
Formatting position: 0
Formatting length: 10
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	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.1.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 2"

Coding:

BER-TLV:	D0	15	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32										

TERMINAL RESPONSE: CLOSE CHANNEL 2.1.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1.

27.22.4.28.2.2 CLOSE CHANNEL (support of Text Attribute – Center Alignment)

27.22.4.28.2.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.2.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.2.2.3 Test purpose

To verify that the ME shall display the alpha identifier according to the center alignment text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.2.4 Method of Test

27.22.4.28.2.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.28.2.2.4.2 Procedure

Expected sequence 2.2 (CLOSE CHANNEL, with Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.2.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.2.1	[alpha identifier is displayed with center alignment]
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.2.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel opening information	
18	ME → USS	PDP context activation request	
19	USS → ME	PDP context activation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.2.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.2.2	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/20, no alignment change will take place]
24	ME → USS	PDP context deactivation request	
25	USS → ME	PDP context deactivation accept	
26	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.2.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.2.1

Logically:

Command details
    Command number: 1

Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Close ID 1"
Text Attribute
Formatting position: 0
Formatting length: 10
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	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	01	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.2.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Close ID 2"

Coding:

BER-TLV:	D0	15	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32										

TERMINAL RESPONSE: CLOSE CHANNEL 2.2.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.2.

27.22.4.28.2.3 CLOSE CHANNEL (support of Text Attribute – Right Alignment)

27.22.4.28.2.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.3.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.2.3.3 Test purpose

To verify that the ME shall display the alpha identifier according to the right alignment text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.3.4 Method of Test

27.22.4.28.2.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.28.2.3.4.2 Procedure

Expected sequence 2.3 (CLOSE CHANNEL, with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.3.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.3.1	[alpha identifier is displayed with right alignment]
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.3.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel opening information	
18	ME → USS	PDP context activation request	
19	USS → ME	PDP context activation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.3.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.3.2	[Message shall be formatted without right alignment. Remark: If right alignment is the ME''s default alignment as declared in table A.2/20, no alignment change will take place]
24	ME → USS	PDP context deactivation request	
25	USS → ME	PDP context deactivation accept	
26	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.3.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.3.1

Logically:

Command details
  Command number: 1
  Command type: CLOSE CHANNEL
  Command qualifier: RFU
Device identities
  Source device: UICC
  Destination device:Channel 1

Alpha Identifier "Close ID 1"
Text Attribute
Formatting position: 0
Formatting length: 10
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	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	02	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.3.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 2"

Coding:

BER-TLV:	D0	15	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32										

TERMINAL RESPONSE: CLOSE CHANNEL 2.3.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.3.

27.22.4.28.2.4 CLOSE CHANNEL (support of Text Attribute – Large Font Size)

27.22.4.28.2.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.4.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.2.4.3 Test purpose

To verify that the ME shall display the alpha identifier according to the large font size text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.4.4 Method of Test

27.22.4.28.2.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.28.2.4.4.2 Procedure

Expected sequence 2.4 (CLOSE CHANNEL, with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.4.1	[alpha identifier is displayed with large font size]
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.4.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel opening information	
18	ME → USS	PDP context deactivation request	
19	USS → ME	PDP context deactivation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.4.2	[alpha identifier is displayed with normal font size]
24	ME → USS	PDP context deactivation request	
25	USS → ME	PDP context deactivation accept	
26	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.4.1	[Command performed successfully]
27	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
30	ME → USER	The ME may display channel opening information	
31	ME → USS	PDP context activation request	
32	USS → ME	PDP context activation accept	
33	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]

34	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.1	
35	ME → UICC	FETCH	
36	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.4.1	[alpha identifier is displayed with large font size]
37	ME → USS	PDP context deactivation request	
38	USS → ME	PDP context deactivation accept	
39	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.4.1	[Command performed successfully]
40	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
41	ME → UICC	FETCH	
42	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
43	ME → USER	The ME may display channel opening information	
44	ME → USS	PDP context activation request	
45	USS → ME	PDP context activation accept	
46	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
47	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.3	
48	ME → UICC	FETCH	
49	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.4.3	[alpha identifier is displayed with normal font size]
50	ME → USS	PDP context deactivation request	
51	USS → ME	PDP context deactivation accept	
52	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.4.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.4.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 1"
Text Attribute
Formatting position: 0
Formatting length: 10
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	1B	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	04	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.4.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 2"
Text Attribute
Formatting position: 0
Formatting length: 10
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	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.4.3

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 3"

Coding:

BER-TLV:	D0	15	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.4.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.4.

27.22.4.28.2.5 CLOSE CHANNEL (support of Text Attribute – Small Font Size)

27.22.4.28.2.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.5.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.2.5.3 Test purpose

To verify that the ME shall display the alpha identifier according to the small font size text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.5.4 Method of Test

27.22.4.28.2.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.28.2.5.4.2 Procedure

Expected sequence 2.5 (CLOSE CHANNEL, with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1	[alpha identifier is displayed with small font size]
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel opening information	
18	ME → USS	PDP context activation request	
19	USS → ME	PDP context activation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.5.2	[alpha identifier is displayed with normal font size]
24	ME → USS	PDP context deactivation request	
25	USS → ME	PDP context deactivation accept	
26	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]
27	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
30	ME → USER	The ME may display channel opening information	
31	ME → USS	PDP context activation request	
32	USS → ME	PDP context activation accept	
33	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]

34	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.1	
35	ME → UICC	FETCH	
36	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1	[alpha identifier is displayed with small font size]
37	ME → USS	PDP context deactivation request	
38	USS → ME	PDP context deactivation accept	
39	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]
40	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
41	ME → UICC	FETCH	
42	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
43	ME → USER	The ME may display channel opening information	
44	ME → USS	PDP context activation request	
45	USS → ME	PDP context activation accept	
46	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
47	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.3	
48	ME → UICC	FETCH	
49	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.5.3	[alpha identifier is displayed with normal font size]
50	ME → USS	PDP context deactivation request	
51	USS → ME	PDP context deactivation accept	
52	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 1"
Text Attribute
Formatting position: 0
Formatting length: 10
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	1B	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	08	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.5.2

Logically:

Command details
  Command number: 1
  Command type: CLOSE CHANNEL
  Command qualifier: RFU
Device identities
  Source device: UICC
  Destination device: Channel 1
Alpha Identifier "Close ID 2"
Text Attribute
  Formatting position: 0
  Formatting length: 10
  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	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.5.3

Logically:

Command details
  Command number: 1
  Command type: CLOSE CHANNEL
  Command qualifier: RFU
Device identities
  Source device: UICC
  Destination device: Channel 1
Alpha Identifier "Close ID 3"

Coding:

BER-TLV:	D0	15	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.5.1

Logically:

Command details
  Command number: 1
  Command type: CLOSE CHANNEL
  Command qualifier: RFU
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.5.

27.22.4.28.2.6 CLOSE CHANNEL (support of Text Attribute – Bold On)

27.22.4.28.2.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.6.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.2.6.3 Test purpose

To verify that the ME shall display the alpha identifier according to the bold text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.6.4 Method of Test

27.22.4.28.2.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.28.2.6.4.2 Procedure

Expected sequence 2.6 (CLOSE CHANNEL, with Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1	[alpha identifier is displayed with bold on]
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel opening information	
18	ME → USS	PDP context activation request	
19	USS → ME	PDP context activation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.6.2	[alpha identifier is displayed with bold off]
24	ME → USS	PDP context deactivation request	
25	USS → ME	PDP context deactivation accept	
26	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]
27	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
30	ME → USER	The ME may display channel opening information	
31	ME → USS	PDP context activation request	
32	USS → ME	PDP context activation accept	
33	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]

34	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.1	
35	ME → UICC	FETCH	
36	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1	[alpha identifier is displayed with bold on]
37	ME → USS	PDP context deactivation request	
38	USS → ME	PDP context deactivation accept	
39	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]
40	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
41	ME → UICC	FETCH	
42	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
43	ME → USER	The ME may display channel opening information	
44	ME → USS	PDP context activation request	
45	USS → ME	PDP context activation accept	
46	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
47	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.3	
48	ME → UICC	FETCH	
49	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.6.3	[alpha identifier is displayed with bold off]
50	ME → USS	PDP context deactivation request	
51	USS → ME	PDP context deactivation accept	
52	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Close ID 1"
Text Attribute
    Formatting position: 0
    Formatting length: 10
    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	1B	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	10	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.6.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 2"
Text Attribute
Formatting position: 0
Formatting length: 10
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	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.6.3

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 3"

Coding:

BER-TLV:	D0	15	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.6.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.6.

27.22.4.28.2.7 CLOSE CHANNEL (support of Text Attribute – Italic On)

27.22.4.28.2.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.7.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.2.7.3 Test purpose

To verify that the ME shall display the alpha identifier according to the italic text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.7.4 Method of Test

27.22.4.28.2.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.28.2.7.4.2 Procedure

Expected sequence 2.7 (CLOSE CHANNEL, with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.7.1	[alpha identifier is displayed with bold on]
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.7.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel opening information	
18	ME → USS	PDP context activation request	
19	USS → ME	PDP context activation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.7.2	[alpha identifier is displayed with bold off]
24	ME → USS	PDP context deactivation request	
25	USS → ME	PDP context deactivation accept	
26	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.7.1	[Command performed successfully]
27	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
30	ME → USER	The ME may display channel opening information	
31	ME → USS	PDP context activation request	
32	USS → ME	PDP context activation accept	
33	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]

34	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.1	
35	ME → UICC	FETCH	
36	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.7.1	[alpha identifier is displayed with bold on]
37	ME → USS	PDP context deactivation request	
38	USS → ME	PDP context deactivation accept	
39	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.7.1	[Command performed successfully]
40	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
41	ME → UICC	FETCH	
42	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
43	ME → USER	The ME may display channel opening information	
44	ME → USS	PDP context activation request	
45	USS → ME	PDP context activation accept	
46	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
47	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.3	
48	ME → UICC	FETCH	
49	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.7.3	[alpha identifier is displayed with bold off]
50	ME → USS	PDP context deactivation request	
51	USS → ME	PDP context deactivation accept	
52	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.7.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.7.1

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device:Channel 1
Alpha Identifier "Close ID 1"
Text Attribute
        Formatting position: 0
        Formatting length: 10
        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	1B	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	20	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.7.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 2"
Text Attribute
Formatting position: 0
Formatting length: 10
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	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.7.3

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 3"

Coding:

BER-TLV:	D0	15	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.7.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.7.

27.22.4.28.2.8 CLOSE CHANNEL (support of Text Attribute – Underline On)

27.22.4.28.2.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.8.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.2.8.3 Test purpose

To verify that the ME shall display the alpha identifier according to the underline text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.8.4 Method of Test

27.22.4.28.2.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.28.2.8.4.2 Procedure

Expected sequence 2.8 (CLOSE CHANNEL, with Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1	[alpha identifier is displayed with underline on]
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel opening information	
18	ME → USS	PDP context activation request	
19	USS → ME	PDP context activation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.8.2	[alpha identifier is displayed with underline off]
24	ME → USS	PDP context deactivation request	
25	USS → ME	PDP context deactivation accept	
26	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]
27	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
30	ME → USER	The ME may display channel opening information	
31	ME → USS	PDP context activation request	
32	USS → ME	PDP context activation accept	

33	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
34	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.1	
35	ME → UICC	FETCH	
36	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1	[alpha identifier is displayed with underline on]
37	ME → USS	PDP context deactivation request	
38	USS → ME	PDP context deactivation accept	
39	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]
40	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
41	ME → UICC	FETCH	
42	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
43	ME → USER	The ME may display channel opening information	
44	ME → USS	PDP context activation request	
45	USS → ME	PDP context activation accept	
46	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
47	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.3	
48	ME → UICC	FETCH	
49	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.8.3	[alpha identifier is displayed with underline off]
50	ME → USS	PDP context deactivation request	
51	USS → ME	PDP context deactivation accept	
52	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1

Logically:

Command details
- Command number: 1
- Command type: CLOSE CHANNEL
- Command qualifier: RFU

Device identities
- Source device: UICC
- Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute
- Formatting position: 0
- Formatting length: 10
- 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	1B	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	40	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.8.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 2"
Text Attribute
Formatting position: 0
Formatting length: 10
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	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.8.3

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 3"

Coding:

BER-TLV:	D0	15	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.8.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.8.

27.22.4.28.2.9 CLOSE CHANNEL (support of Text Attribute – Strikethrough On)

27.22.4.28.2.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.9.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.2.9.3 Test purpose

To verify that the ME shall display the alpha identifier according to the strikethrough text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.9.4 Method of Test

27.22.4.28.2.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.28.2.9.4.2 Procedure

Expected sequence 2.9 (CLOSE CHANNEL, with Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1	[alpha identifier is displayed with strikethrough on]
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.9.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel opening information	
18	ME → USS	PDP context activation request	
19	USS → ME	PDP context activation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.2	[alpha identifier is displayed with strikethrough off]
24	ME → USS	PDP context deactivation request	
25	USS → ME	PDP context deactivation accept	
26	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.9.1	[Command performed successfully]
27	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
30	ME → USER	The ME may display channel opening information	
31	ME → USS	PDP context activation request	
32	USS → ME	PDP context activation accept	
33	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]

34	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.1	
35	ME → UICC	FETCH	
36	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1	[alpha identifier is displayed with strikethrough on]
37	ME → USS	PDP context deactivation request	
38	USS → ME	PDP context deactivation accept	
39	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.9.1	[Command performed successfully]
40	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
41	ME → UICC	FETCH	
42	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
43	ME → USER	The ME may display channel opening information	
44	ME → USS	PDP context activation request	
45	USS → ME	PDP context activation accept	
46	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
47	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.3	
48	ME → UICC	FETCH	
49	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.3	[alpha identifier is displayed with strikethrough off]
50	ME → USS	PDP context deactivation request	
51	USS → ME	PDP context deactivation accept	
52	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.9.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1

Logically:

Command details
    Command number: 1
    Command type: CLOSE CHANNEL
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device:Channel 1
Alpha Identifier "Close ID 1"
Text Attribute
        Formatting position: 0
        Formatting length: 10
        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	1B	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	80	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.9.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 2"
Text Attribute
Formatting position: 0
Formatting length: 10
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	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.9.3

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 3"

Coding:

BER-TLV:	D0	15	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	33										

TERMINAL RESPONSE: CLOSE CHANNEL 2.9.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.9.

27.22.4.28.2.10 CLOSE CHANNEL (support of Text Attribute – Foreground and Background Colour)

27.22.4.28.2.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.28.2.10.3 Test purpose

To verify that the ME shall display the alpha identifier according to the foreground and background colour text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.10.4 Method of Test

27.22.4.28.2.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.28.2.10.4.2 Procedure

Expected sequence 2.10 (CLOSE CHANNEL, with Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.10.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.10.1	[alpha identifier is displayed with foreground and background colour according to the text attribute configuration]
11	ME → USS	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.10.1	[Command performed successfully]
14	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel opening information	
18	ME → USS	PDP context activation request	
19	USS → ME	PDP context activation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
21	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.10.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 2.10.2	[alpha identifier is displayed with ME"s default foreground and background colour]
24	ME → USS	PDP context deactivation request	
25	USS → ME	PDP context deactivation accept	
26	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.10.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.10.1

Logically:

Command details
- Command number: 1
- Command type: CLOSE CHANNEL
- Command qualifier: RFU

Device identities
- Source device: UICC

Destination device:Channel 1
Alpha Identifier "Close ID 1"
Text Attribute
Formatting position: 0
Formatting length: 10
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	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	31	D0	04	00	0A	00	B4				

PROACTIVE COMMAND: CLOSE CHANNEL 2.10.2

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: UICC
Destination device:Channel 1
Alpha Identifier "Close ID 2"

Coding:

BER-TLV:	D0	15	81	03	01	41	00	82	02	81	21
	85	0A	43	6C	6F	73	65	20	49	44	20
	32										

TERMINAL RESPONSE: CLOSE CHANNEL 2.10.1

Logically:

Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

27.22.4.28.2.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.10.

27.22.4.29 RECEIVE DATA

27.22.4.29.1 RECEIVE DATA (NORMAL)

27.22.4.29.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.1.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or
- TERMINAL RESPONSE (ME currently unable to process command); or
- TERMINAL RESPONSE (Bearer Independent Protocol Error);

to the UICC after the ME receives the RECEIVE DATA proactive command. The TERMINAL RESPONSE sent back to the UICC is function of the ME and the network capabilities against asked parameters by the UICC.

27.22.4.29.1.4 Method of test

27.22.4.29.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 51.010-1 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog

User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.29.1.4.2 Procedure

Expected sequence 1.1 (RECEIVE DATA, already opened channel)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 1000 Bytes of data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1	(1000 Bytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.1	200 Bytes
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.2	200 Bytes
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.2	
27	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.3	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.3	200 Bytes
30	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.3	
31	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.4	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.4	200 Bytes
34	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.4	
35	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.5	
36	ME → UICC	FETCH	
37	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.5	200 Bytes
38	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.5	

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: ME
- Event list Data available

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	09										

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: ME
  - 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 1.1.1

Logically:

- Command details
  - Command number: 1
  - Command type: OPEN CHANNEL
  - Command qualifier: immediate link establishment
- Device identities
  - Source device: UICC
  - Destination device: ME
- Bearer
  - Bearer type: GPRS
  - Bearer parameter:
  - Precedence Class: 03
  - Delay Class: 04
  - Reliability Class: 03
  - Peak throughput class: 04
  - Mean throughput class: 31
  - Packet data protocol: 02 (IP)
- Buffer
  - Buffer size: 1000
- Network access name: TestGp.rs
- Text String: UserLog (User login)
- Text String: UserPwd (User password)
- UICC/ME interface transport level
  - Transport format: UDP

Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV												
	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	03	04	03	04	1F	02	39	02	03	E8
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	03	E8							

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:

Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	03	E8							

PROACTIVE COMMAND: SEND DATA 1.1.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	13	81	03	01	43	01	82	02	81	21	B6
	08	00	01	02	03	04	05	06	07			

TERMINAL RESPONSE: SEND DATA 1.1.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1

Logically:

Event list
Event: Data available
Device identities

Source device: ME
Destination device: UICC
Channel status
Channel status: Channel 1 open, link established
Channel Data Length
Channel data length: FF (more than 255 bytes are available)

Coding:

BER-TLV:	D6	0E	99	01	09	82	02	82	81	B8	02	81
	00	B7	01	FF								

PROACTIVE COMMAND: RECEIVE DATA 1.1.1

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data Length
Channel Data Length: 200

Coding:

BER-TLV:	D0	0C	81	03	01	42	00	82	02	81	21	B7
	01	C8										

PROACTIVE COMMAND: RECEIVE DATA 1.1.2

Logically:

Command details
Command number: 2
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data Length
Channel Data Length: 200

Coding:

BER-TLV:	D0	0C	81	03	02	42	00	82	02	81	21	B7
	01	C8										

PROACTIVE COMMAND: RECEIVE DATA 1.1.3

Logically:

Command details
Command number: 3
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1

Channel Data Length
Channel Data Length: 200

Coding:

BER-TLV:	D0	0C	81	03	03	42	00	82	02	81	21	B7
	01	C8										

PROACTIVE COMMAND: RECEIVE DATA 1.1.4

Logically:

Command details
Command number: 4
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data Length
Channel Data Length: 200

Coding:

BER-TLV:	D0	0C	81	03	04	42	00	82	02	81	21	B7
	01	C8										

PROACTIVE COMMAND: RECEIVE DATA 1.1.5

Logically:

Command details
Command number: 5
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data Length
Channel Data Length: 200

Coding:

BER-TLV:	D0	0C	81	03	05	42	00	82	02	81	21	B7
	01	C8										

TERMINAL RESPONSE: RECEIVE DATA 1.1.1

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

TERMINAL RESPONSE: RECEIVE DATA 1.1.2

Logically:

Command details
    Command number: 2
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data : C8 C9 CA .. FF 00 01 .. 8F (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	02	42	00	82	02	82	81	83	01	00
	B6	81	C8	C8	C9	CA	..	FF	00	01	02	..
	8F	B7	01	FF								

TERMINAL RESPONSE: RECEIVE DATA 1.1.3

Logically:

Command details
    Command number: 3
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data : 90 91 .. FF 00 01 – 57 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	03	42	00	82	02	82	81	83	01	00
	B6	81	C8	90	91	92	..	FF	00	01	02	..
	57	B7	01	FF								

TERMINAL RESPONSE: RECEIVE DATA 1.1.4

Logically:

Command details
    Command number: 4
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result

General Result: Command performed successfully
Channel Data : 58 59 .. FF 00 01 .. 1F (200 Bytes of data)
Channel data length: C8

Coding:

BER-TLV:	81	03	04	42	00	82	02	82	81	83	01	00
	B6	81	C8	58	59	5A	..	FF	00	01	02	..
	1F	B7	01	C8								

TERMINAL RESPONSE: RECEIVE DATA 1.1.5

Logically:

Command details
Command number: 5
Command type: RECEIVE DATA
Command qualifier: RFUDevice identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel Data: 20 21 .. E7 (200 Bytes of data)
Channel data length: 00

Coding:

BER-TLV:	81	03	05	42	00	82	02	82	81	83	01	00
	B6	81	C8	20	21	22	..	E7	B7	01	00	

27.22.4.29.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.4.29.2 RECEIVE DATA (support of Text Attribute)

27.22.4.29.2.1 RECEIVE DATA (support of Text Attribute – Left Alignment)

27.22.4.29.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.2.1.3 Test purpose

To verify that the ME shall display the alpha identifier according to the left alignment text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.1.4 Method of test

27.22.4.29.2.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.29.2.1.4.2 Procedure

Expected sequence 2.1 (RECEIVE DATA, with Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 400 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1ENVELOPE (Data Available)	(400 Bytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.1.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.1.1	200 Bytes with alpha identifier is displayed with left alignment
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.1.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.1.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.1.2	200 Bytes with alpha identifier shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/21, no alignment change will take place
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.1.1	

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Logically:

Event list
Event: Data available
Device identities
Source device: ME
Destination device: UICC
Channel status
Channel status: Channel 1 open, link established
Channel Data Length
Channel data length: FF (more than 255 bytes are available)

Coding:

BER-TLV:	D6	0E	99	01	09	82	02	82	81	B8	02	81
	00	B7	01	FF								

PROACTIVE COMMAND: RECEIVE DATA 2.1.1

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.1.2

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.1.1

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

27.22.4.29.2.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1.

27.22.4.29.2.2 RECEIVE DATA (support of Text Attribute – Center Alignment)

27.22.4.29.2.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.2.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.2.2.3 Test purpose

To verify that the ME shall display the alpha identifier according to the center alignment text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.2.4 Method of test

27.22.4.29.2.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The

corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd
UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.29.2.2.4.2 Procedure

Expected sequence 2.2 (RECEIVE DATA, with Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 400 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(400 Bytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.2.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.2.1	200 Bytes with alpha identifier is displayed with center alignment
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.2.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.2.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.2.2	200 Bytes with alpha identifier shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/21, no alignment change will take place
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.2.1	

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

PROACTIVE COMMAND: RECEIVE DATA 2.2.1

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
Channel Data Length: 200
Text Attribute
Formatting position: 0
Formatting length: 14
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	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	01	B4

PROACTIVE COMMAND: RECEIVE DATA 2.2.2

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.2.1

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA

Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

27.22.4.29.2.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.2.

27.22.4.29.2.3 RECEIVE DATA (support of Text Attribute – Right Alignment)

27.22.4.29.2.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.3.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.2.3.3 Test purpose

To verify that the ME shall display the alpha identifier according to the right alignment text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.3.4 Method of test

27.22.4.29.2.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.29.2.3.4.2 Procedure

Expected sequence 2.3 (RECEIVE DATA, with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 400 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(400 Bytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.3.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.3.1	200 Bytes with alpha identifier is displayed with right alignment
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.3.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.3.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.3.2	200 Bytes with alpha identifier shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/21, no alignment change will take place
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.3.1	

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

PROACTIVE COMMAND: RECEIVE DATA 2.3.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
    Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	02	B4

PROACTIVE COMMAND: RECEIVE DATA 2.3.2

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.3.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA

	Command qualifier:	RFU
Device identities		
	Source device:	ME
	Destination device:	UICC
Result		
	General Result:	Command performed successfully
Channel Data :		00 01 02 .. C7 (200 Bytes of data)
Channel data length:		FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

27.22.4.29.2.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.3.

27.22.4.29.2.4 RECEIVE DATA (support of Text Attribute – Large Font Size)

27.22.4.29.2.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.4.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.2.4.3 Test purpose

To verify that the ME shall display the alpha identifier according to the large font size text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.4.4 Method of test

27.22.4.29.2.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.29.2.4.4.2 Procedure

Expected sequence 2.4 (RECEIVE DATA, with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(800 Bytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.4.1	200 Bytes with alpha identifier is displayed with large font size
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.4.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.4.2	200 Bytes with alpha identifier is displayed with normal font size
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.4.1	
27	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.4.1	200 Bytes with alpha identifier is displayed with large font size
30	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.4.1	
31	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.4.3	200 Bytes with alpha identifier is displayed with normal font size
34	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.4.1	

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

PROACTIVE COMMAND: RECEIVE DATA 2.4.1

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
Channel Data Length: 200
Text Attribute
Formatting position: 0
Formatting length: 14
Formatting mode: Left Alignment, Large Font, Bold On, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	04	B4

PROACTIVE COMMAND: RECEIVE DATA 2.4.2

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.4.3

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 3"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.4.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

27.22.4.29.2.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.4.

27.22.4.29.2.5 RECEIVE DATA (support of Text Attribute – Small Font Size)

27.22.4.29.2.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.5.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.2.5.3 Test purpose

To verify that the ME shall display the alpha identifier according to small font size the text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.5.4 Method of test

27.22.4.29.2.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.29.2.5.4.2 Procedure

Expected sequence 2.5 (RECEIVE DATA, with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(800 Bytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.5.1	200 Bytes with alpha identifier is displayed with small font size
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.5.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.5.2	200 Bytes with alpha identifier is displayed with normal font size
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.5.1	
27	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.5.1	200 Bytes with alpha identifier is displayed with small font size
30	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.5.1	
31	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.5.3	200 Bytes with alpha identifier is displayed with normal font size
34	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.5.1	

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

PROACTIVE COMMAND: RECEIVE DATA 2.5.1

Logically:

Command details
  Command number: 1
  Command type: RECEIVE DATA
  Command qualifier: RFU
Device identities
  Source device: UICC
  Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
  Channel Data Length: 200
Text Attribute
  Formatting position: 0
  Formatting length: 14
  Formatting mode: Left Alignment, Small Font, Bold On, Italic Off, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	08	B4

PROACTIVE COMMAND: RECEIVE DATA 2.5.2

Logically:

Command details
  Command number: 1
  Command type: RECEIVE DATA
  Command qualifier: RFU
Device identities
  Source device: UICC
  Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
  Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.5.3

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 3"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.5.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

27.22.4.29.2.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.5.

27.22.4.29.2.6 RECEIVE DATA (support of Text Attribute – Bold On)

27.22.4.29.2.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.6.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.2.6.3 Test purpose

To verify that the ME shall display the alpha identifier according to the bold text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.6.4 Method of test

27.22.4.29.2.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.29.2.6.4.2 Procedure

Expected sequence 2.6 (RECEIVE DATA, with Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(800 Bytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.6.1	200 Bytes with alpha identifier is displayed with bold on
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.6.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.6.2	200 Bytes with alpha identifier is displayed with bold off
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.6.1	
27	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.6.1	200 Bytes with alpha identifier is displayed with bold on
30	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.6.1	
31	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.6.3	200 Bytes with alpha identifier is displayed with bold off
34	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.6.1	

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

PROACTIVE COMMAND: RECEIVE DATA 2.6.1

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	10	B4

PROACTIVE COMMAND: RECEIVE DATA 2.6.2

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.6.3

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 3"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.6.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

27.22.4.29.2.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.6.

27.22.4.29.2.7 RECEIVE DATA (support of Text Attribute – Italic On)

27.22.4.29.2.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.7.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.2.7.3 Test purpose

To verify that the ME shall display the alpha identifier according to the italic text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.7.4 Method of test

27.22.4.29.2.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.29.2.7.4.2 Procedure

Expected sequence 2.7 (RECEIVE DATA, with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1ENVELOPE	(800 Bytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.7.1	200 Bytes with alpha identifier is displayed with italic on
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.7.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.7.2	200 Bytes with alpha identifier is displayed with italic off
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.7.1	
27	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.7.1	200 Bytes with alpha identifier is displayed with italic on
30	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.7.1	
31	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.7.3	200 Bytes with alpha identifier is displayed with italic off
34	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.7.1	

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

PROACTIVE COMMAND: RECEIVE DATA 2.7.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
    Channel Data Length: 200
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	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	20	B4

PROACTIVE COMMAND: RECEIVE DATA 2.7.2

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
    Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.7.3

Logically:

Command details
  Command number: 1
  Command type: RECEIVE DATA
  Command qualifier: RFU
Device identities
  Source device: UICC
  Destination device: Channel 1
Alpha Identifier "Receive Data 3"
Channel Data Length
  Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.7.1

Logically:

Command details
  Command number: 1
  Command type: RECEIVE DATA
  Command qualifier: RFU
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

27.22.4.29.2.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.7.

27.22.4.29.2.8 RECEIVE DATA (support of Text Attribute – Underline On)

27.22.4.29.2.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.8.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.2.8.3 Test purpose

To verify that the ME shall display the alpha identifier according to the underline text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.8.4 Method of test

27.22.4.29.2.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.29.2.8.4.2 Procedure

Expected sequence 2.8 (RECEIVE DATA, with Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(800 kBytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.8.1	200 Bytes with alpha identifier is displayed with underline on
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.8.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.8.2	200 Bytes with alpha identifier is displayed with underline off
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.8.1	
27	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.8.1	200 Bytes with alpha identifier is displayed with underline on
30	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.8.1	
31	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.8.3	200 Bytes with alpha identifier is displayed with underline off
34	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.8.1	

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

PROACTIVE COMMAND: RECEIVE DATA 2.8.1

Logically:

Command details
 Command number: 1
 Command type: RECEIVE DATA
 Command qualifier: RFU
Device identities
 Source device: UICC
 Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
 Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	40	B4

PROACTIVE COMMAND: RECEIVE DATA 2.8.2

Logically:

Command details
 Command number: 1
 Command type: RECEIVE DATA
 Command qualifier: RFU
Device identities
 Source device: UICC
 Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
 Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.8.3

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 3"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.8.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

27.22.4.29.2.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.8.

27.22.4.29.2.9 RECEIVE DATA (support of Text Attribute – Strikethrough On)

27.22.4.29.2.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.9.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.2.9.3 Test purpose

To verify that the ME shall display the alpha identifier according to the strikethrough text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.9.4 Method of test

27.22.4.29.2.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.29.2.9.4.2 Procedure

Expected sequence 2.9 (RECEIVE DATA, with Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(800 Bytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.9.1	200 Bytes with alpha identifier is displayed with strikethrough on
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.9.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.9.2	200 Bytes with alpha identifier is displayed with strikethrough off
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.9.1	
27	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.1	
28	ME → UICC	FETCH	
29	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.9.1	200 Bytes with alpha identifier is displayed with strikethrough on
30	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.9.1	
31	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.3	
32	ME → UICC	FETCH	
33	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.9.3	200 Bytes with alpha identifier is displayed with strikethrough off
34	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.9.1	

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

PROACTIVE COMMAND: RECEIVE DATA 2.9.1

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	80	B4

PROACTIVE COMMAND: RECEIVE DATA 2.9.2

Logically:

Command details
Command number: 1
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.9.3

Logically:

Command details
  Command number: 1
  Command type: RECEIVE DATA
  Command qualifier: RFU
Device identities
  Source device: UICC
  Destination device: Channel 1
Alpha Identifier "Receive Data 3"
Channel Data Length
  Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	33	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.9.1

Logically:

Command details
  Command number: 1
  Command type: RECEIVE DATA
  Command qualifier: RFU
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

27.22.4.29.2.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.9.

27.22.4.29.2.10 RECEIVE DATA (support of Text Attribute – Foreground and Background Colour)

27.22.4.29.2.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.29.2.10.3 Test purpose

To verify that the ME shall display the alpha identifier according to the foreground and background colour text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.10.4 Method of test

27.22.4.29.2.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.29.2.10.4.2 Procedure

Expected sequence 2.10 (RECEIVE DATA, with Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	USS → ME	Transfer of 400 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15	
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(400 Bytes of data in the ME buffer)
19	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.10.1	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.10.1	200 Bytes with alpha identifier is displayed with foreground and background colour
22	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.10.1	
23	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.10.2	
24	ME → UICC	FETCH	
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.10.2	200 Bytes with alpha identifier is displayed with ME"s default foreground and background colour
26	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 2.10.1	

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

PROACTIVE COMMAND: RECEIVE DATA 2.10.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 1"
Channel Data Length
    Channel Data Length: 200
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

Coding:

BER-TLV:	D0	22	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	31	B7	01	C8	D0	04	00	0E	00	B4

PROACTIVE COMMAND: RECEIVE DATA 2.10.2

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Receive Data 2"
Channel Data Length
    Channel Data Length: 200

Coding:

BER-TLV:	D0	1C	81	03	01	42	00	82	02	81	21	85
	0E	52	65	63	65	69	76	65	20	44	61	74
	61	20	32	B7	01	C8						

TERMINAL RESPONSE: RECEIVE DATA 2.10.1

Logically:

Command details
    Command number: 1
    Command type: RECEIVE DATA
    Command qualifier: RFU

Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully
Channel Data :	00 01 02 .. C7 (200 Bytes of data)
Channel data length:	FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	81	C8	00	01	02	..	C7	B7	01	FF	

27.22.4.29.2.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.10.

27.22.4.30 SEND DATA

27.22.4.30.1 SEND DATA (normal)

27.22.4.30.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.1.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or
- TERMINAL RESPONSE (ME currently unable to process command); or
- TERMINAL RESPONSE (Bearer Independent Protocol Error);
- TERMINAL RESPONSE (Proactive USIM session terminated by the user);

to the UICC after the ME receives the SEND DATA proactive command. The TERMINAL RESPONSE sent back to the UICC is the result of the ME and the network capabilities against requested parameters by the UICC.

27.22.4.30.1.4 Method of test

27.22.4.30.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27

The following Bearer Parameters used are those defined in the default Test PDP context for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.30.1.4.2 Procedure

Expected sequence 1.1 (SEND DATA, immediate mode)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
11	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	
12	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME

- Bearer
    - Bearer type: GPRS
    - Bearer parameter:
    - Precedence Class: 03
    - Delay Class: 04
    - Reliability Class: 03
    - Peak throughput class: 04
    - Mean throughput class: 31
    - Packet data protocol: 02 (IP)
- Buffer
    - Buffer size: 1000
- Network access name: TestGp.rs
- Text String: UserLog (User login)
- Text String: UserPwd (User password)
- UICC/ME interface transport level
    - Transport format: UDP
    - Port number: 44444
- Data destination address 01.01.01.01

Coding:

BER-TLV	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	03	04	03	04	1F	02	39	02	03	E8
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

- Command details
    - Command number: 1
    - Command type: OPEN CHANNEL
    - Command qualifier: immediate link establishment
- Device identities
    - Source device: ME
    - Destination device: UICC
- Result
    - General Result: Command performed successfully
- Channel status Channel identifier 1 and link established or PDP context activated
- Bearer description
    - Bearer type: GPRS
    - Bearer parameter:
    - Precedence Class: 03
    - Delay Class: 04
    - Reliability Class: 03
    - Peak throughput class: 04
    - Mean throughput class: 31
    - Packet data protocol: 02 (IP)
- Buffer
    - Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	03	E8							

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	03	E8							

PROACTIVE COMMAND: SEND DATA 1.1.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	13	81	03	01	43	01	82	02	81	21	B6
	08	00	01	02	03	04	05	06	07			

TERMINAL RESPONSE: SEND DATA 1.1.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: ME
Destination device: UICC
Result

General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

Expected sequence 1.2 (SEND DATA, Store mode)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.2.1	Send 500 Bytes of data (200 + 200 + 100)
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.2.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.2.2	[200 Bytes]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.2.2	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.3	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA (Immediate mode) 1.2.3	[100 Bytes]
19	ME → USS	Transfer of 500 Bytes of data to the USS through channel 1	
20	ME → UICC	TERMINAL RESPONSE: SEND DATA (Immediate mode) 1.2.3	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 1.2.1

Logically:

Command details
  Command number: 1
  Command type: SEND DATA
  Command qualifier: Store mode
Device identities
  Source device: UICC
  Destination device: Channel 1
Channel Data
  Channel Data : 00 01 .. C7 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	00	01	..	C7					

TERMINAL RESPONSE: SEND DATA 1.2.1

Logically:

Command details
  Command number: 1
  Command type: SEND DATA
  Command qualifier: Store mode
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
  Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.2.2

Logically:

Command details
  Command number: 1
  Command type: SEND DATA
  Command qualifier: Store mode
Device identities
  Source device: UICC
  Destination device: Channel 1
Channel Data
  Channel Data : C8 C9 .. FF 00 01 .. 8F (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	C8	C9	..	FF	00	01	..	8F	

TERMINAL RESPONSE: SEND DATA 1.2.2

Logically:

Command details
  Command number: 1
  Command type: SEND DATA
  Command qualifier: Store mode
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
  Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.2.3

Logically:

- Command details
  - Command number: 1
  - Command type: SEND DATA
  - Command qualifier: Immediate mode
- Device identities
  - Source device: UICC
  - Destination device: Channel 1
- Channel Data
  - Channel Data : 90 91 .. F3 (100 Bytes of data)

Coding:

BER-TLV:	D0	6F	81	03	01	43	01	82	02	81	21	B6
	64	90	91	..	F3							

TERMINAL RESPONSE: SEND DATA 1.2.3

Logically:

- Command details
  - Command number: 1
  - Command type: SEND DATA
  - Command qualifier: Immediate mode
- Device identities
  - Source device: ME
  - Destination device: UICC
- Result
  - General Result: Command performed successfully
  - Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

Expected sequence 1.3 (SEND DATA, Store mode, Tx buffer fully used)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packet of 200 Bytes
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
27	ME → USS	Transfer of 1000 Bytes of data to the USS through channel 1	
28	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 1.3.1

Logically:

Command details
- Command number: 1
- Command type: SEND DATA
- Command qualifier: Store mode

Device identities
- Source device: UICC
- Destination device: Channel 1

Channel Data
Channel Data : 00 01 02 .. C7 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	00	01	02	...	C7				

TERMINAL RESPONSE: SEND DATA 1.3.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.3.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data
Channel Data : C8 C9 CA .. FF 00 01 .. 8F (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	C8	C9	CA	...	FF	00	02	..	8F

TERMINAL RESPONSE: SEND DATA 1.3.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.3.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data
Channel Data : 90 91 .. FF 00 01 .. 57 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	90	91	..	FF	00	01	..	57	

TERMINAL RESPONSE: SEND DATA 1.3.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.3.4

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data
Channel Data : 58 59 .. FF 00 01 .. 1F (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	58	59	..	FF	00	01	..	1F	

TERMINAL RESPONSE: SEND DATA 1.3.4

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Store mode
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: 200 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	C8									

PROACTIVE COMMAND: SEND DATA 1.3.5

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Channel Data
    Channel Data: 20 21 .. E7 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	01	82	02	81	21
	B6	81	C8	20	21	..	E7					

TERMINAL RESPONSE: SEND DATA 1.3.5

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

Expected sequence 1.4 (SEND DATA, 2 consecutive SEND DATA Store mode)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packet of 200 Bytes
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
24	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	…
25	ME → UICC	FETCH	
26	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
27	ME → USS	Transfer of 1000 Bytes of data to the USS through channel 1	
28	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]
29	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
30	ME → UICC	FETCH	
31	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packet of 200 Bytes
32	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
33	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
34	ME → UICC	FETCH	
35	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
36	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]

37	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
38	ME → UICC	FETCH	
39	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
40	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
41	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
42	ME → UICC	FETCH	
43	UICC → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
44	ME → UICC	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
45	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	…
46	ME → UICC	FETCH	
47	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
48	ME → USS	Transfer of 1000 Bytes of data to the USS through channel 1	
49	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]

Expected sequence 1.5 (SEND DATA, immediate mode with a bad channel identifier)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.5.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.5.1	
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.5.1	[Invalid channel number]

PROACTIVE COMMAND: SEND DATA 1.5.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 2
Channel Data
    Channel Data : 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	13	81	03	01	43	01	82	02	81	22	B6
	08	00	01	02	03	04	05	06	07			

TERMINAL RESPONSE: SEND DATA 1.5.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Bearer Independent Protocol error (3A)
    Additional Result: Channel identifier not valid (03)

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	02	3A
	03											

Expected sequence 1.6 Void

27.22.4.30.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.5.

27.22.4.30.2 SEND DATA (support of Text Attribute)

27.22.4.30.2.1 SEND DATA (support of Text Attribute – Left Alignment)

27.22.4.30.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.1.3 Test purpose

To verify that the ME shall display the alpha identifier according to the left alignment text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.1.4 Method of test

27.22.4.30.2.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The

corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.30.2.1.4.2 Procedure

Expected sequence 2.1 (SEND DATA with Text Attribute – Left Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.1.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.1.1	[alpha identifier shall be displayed with left alignment]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.1.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.1.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.1.2	[Message shall be formatted without left alignment. Remark: If left alignment is the ME"s default alignment as declared in table A.2/22, no alignment change will take place]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.1.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Normal Font, Bold On, Italic On, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.1.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.1.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

27.22.4.30.2.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1.

27.22.4.30.2.2 SEND DATA (support of Text Attribute – Center Alignment)

27.22.4.30.2.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.2.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.2.3 Test purpose

To verify that the ME shall display the alpha identifier according to the center alignment text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.2.4 Method of test

27.22.4.30.2.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.30.2.2.4.2 Procedure

Expected sequence 2.2 (SEND DATA with Text Attribute – Center Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.2.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.2.1	[alpha identifier shall be displayed with center alignment]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.2.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.2.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.2.2	[Message shall be formatted without center alignment. Remark: If center alignment is the ME"s default alignment as declared in table A.2/22, no alignment change will take place]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.2.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.2.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Center Alignment, Normal Font, Bold On, Italic On, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	01	B4								

PROACTIVE COMMAND: SEND DATA 2.2.2

Logically:

Command details
  Command number: 1
  Command type: SEND DATA
  Command qualifier: Send Immediately
Device identities
  Source device: UICC
  Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
  Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.2.1

Logically:

Command details
  Command number: 1
  Command type: SEND DATA
  Command qualifier: Send Immediately
Device identities
  Source device: ME
  Destination device: UICC
Result
  General Result: Command performed successfully
  Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

27.22.4.30.2.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.2.

27.22.4.30.2.3 SEND DATA (support of Text Attribute – Right Alignment)

27.22.4.30.2.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.3.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.3.3 Test purpose

To verify that the ME shall display the alpha identifier according to the right alignment text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.3.4 Method of test

27.22.4.30.2.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.30.2.3.4.2 Procedure

Expected sequence 2.3 (SEND DATA with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.3.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.3.1	[alpha identifier shall be displayed with right alignment]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.3.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.3.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.3.2	[Message shall be formatted without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/22, no alignment change will take place]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.3.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.3.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
        Formatting position: 0
        Formatting length: 11
        Formatting mode: Right Alignment, Normal Font, Bold On, Italic On, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	02	B4								

PROACTIVE COMMAND: SEND DATA 2.3.2

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.3.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

27.22.4.30.2.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.3.

27.22.4.30.2.4 SEND DATA (support of Text Attribute – Large Font Size)

27.22.4.30.2.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.4.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.4.3 Test purpose

To verify that the ME shall display the alpha identifier according to the large font size text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.4.4 Method of test

27.22.4.30.2.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.30.2.4.4.2 Procedure

Expected sequence 2.4 (SEND DATA with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.4.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.4.1	[alpha identifier shall be displayed with large font size]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.4.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.4.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.4.2	[alpha identifier shall be displayed with normal font size]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.4.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.4.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.4.1	[alpha identifier shall be displayed with large font size]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.4.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.4.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.4.3	[alpha identifier shall be displayed with normal font size]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.4.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.4.1

Logically:

Command details
 Command number: 1
 Command type: SEND DATA
 Command qualifier: Send Immediately
Device identities
 Source device: UICC
 Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
 Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
 Formatting position: 0
 Formatting length: 11

Formatting mode: Left Alignment, Large Font, Bold On, Italic On, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	04	B4								

PROACTIVE COMMAND: SEND DATA 2.4.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.4.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 3"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.4.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

27.22.4.30.2.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.4.

27.22.4.30.2.5 SEND DATA (support of Text Attribute – Small Font Size)

27.22.4.30.2.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.5.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.5.3 Test purpose

To verify that the ME shall display the alpha identifier according to the small font size text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.5.4 Method of test

27.22.4.30.2.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.30.2.5.4.2 Procedure

Expected sequence 2.5 (SEND DATA with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.5.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.5.1	[alpha identifier shall be displayed with small font size]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.5.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.5.2	[alpha identifier shall be displayed with normal font size]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.5.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.5.1	[alpha identifier shall be displayed with small font size]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.5.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.5.3	[alpha identifier shall be displayed with normal font size]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.5.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
Text Attribute
Formatting position: 0
Formatting length: 11
Formatting mode: Left Alignment, Small Font, Bold On, Italic On, Underline Off, Strikethrough Off
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	08	B4								

PROACTIVE COMMAND: SEND DATA 2.5.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.5.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately

Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Send Data 3"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.5.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

27.22.4.30.2.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.5.

27.22.4.30.2.6 SEND DATA (support of Text Attribute – Bold On)

27.22.4.30.2.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.6.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.6.3 Test purpose

To verify that the ME shall display the alpha identifier according to the bold text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.6.4 Method of test

27.22.4.30.2.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.30.2.6.4.2 Procedure

Expected sequence 2.6 (SEND DATA with Text Attribute – Bold On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.6.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.6.1	[alpha identifier shall be displayed with Bold on]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.6.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.6.2	[alpha identifier shall be displayed with bold off]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.6.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.6.1	[alpha identifier shall be displayed with bold on]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.6.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.6.3	[alpha identifier shall be displayed with bold off]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.6.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	10	B4								

PROACTIVE COMMAND: SEND DATA 2.6.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.6.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 3"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.6.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

27.22.4.30.2.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.6.

27.22.4.30.2.7 SEND DATA (support of Text Attribute – Italic On)

27.22.4.30.2.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.7.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.7.3 Test purpose

To verify that the ME shall display the alpha identifier according to the italic text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.7.4 Method of test

27.22.4.30.2.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03

Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.30.2.7.4.2 Procedure

Expected sequence 2.7 (SEND DATA with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.7.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.7.1	[alpha identifier shall be displayed with Italic on]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.7.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.7.2	[alpha identifier shall be displayed with italic off]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.7.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.7.1	[alpha identifier shall be displayed with italic on]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.7.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.7.3	[alpha identifier shall be displayed with italic off]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.7.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	20	B4								

PROACTIVE COMMAND: SEND DATA 2.7.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.7.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities

Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 3"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.7.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

27.22.4.30.2.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.7.

27.22.4.30.2.8 SEND DATA (support of Text Attribute – Underline On)

27.22.4.30.2.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.8.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.8.3 Test purpose

To verify that the ME shall display the alpha identifier according to the underline text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.8.4 Method of test

27.22.4.30.2.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.30.2.8.4.2 Procedure

Expected sequence 2.8 (SEND DATA with Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.8.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.8.1	[alpha identifier shall be displayed with underline on]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.8.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.8.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.8.2	[alpha identifier shall be displayed with underline off]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.8.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.8.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.8.1	[alpha identifier shall be displayed with underline on]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.8.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.8.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.8.3	[alpha identifier shall be displayed with underline off]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.8.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.8.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	40	B4								

PROACTIVE COMMAND: SEND DATA 2.8.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.8.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 3"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.8.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

27.22.4.30.2.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.8.

27.22.4.30.2.9 SEND DATA (support of Text Attribute – Strikethrough On)

27.22.4.30.2.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.9.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.9.3 Test purpose

To verify that the ME shall display the alpha identifier according to the strikethrough text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.9.4 Method of test

27.22.4.30.2.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

UICC/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.30.2.9.4.2 Procedure

Expected sequence 2.9 (SEND DATA with Text Attribute – Strikethrough On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.9.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.9.1	[alpha identifier shall be displayed with strikethrough on]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.9.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.9.2	[alpha identifier shall be displayed with strikethrough off]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1	[Command performed successfully]
16	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.9.1	
17	ME → UICC	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.9.1	[alpha identifier shall be displayed with strikethrough on]
19	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1	[Command performed successfully]
20	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.9.3	
21	ME → UICC	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.9.3	[alpha identifier shall be displayed with strikethrough off]
23	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.9.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	80	B4								

PROACTIVE COMMAND: SEND DATA 2.9.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.9.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately

Device identities
Source device: UICC
Destination device: Channel 1
Alpha Identifier "Send Data 3"
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	33
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.9.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

27.22.4.30.2.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.9.

27.22.4.30.2.10 SEND DATA (support of Text Attribute – Foreground and Background Colour)

27.22.4.30.2.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.10.3 Test purpose

To verify that the ME shall display the alpha identifier according to the foreground and background colour text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.30.2.10.4 Method of test

27.22.4.30.2.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.30.2.10.4.2 Procedure

Expected sequence 2.10 (SEND DATA with Text Attribute – Foreground and Background Colour)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.10.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.10.1	[alpha identifier shall be displayed with foreground and background colour according to the text attribute configuration]
11	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.10.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 2.10.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND DATA 2.10.2	[alpha identifier shall be displayed with ME"s default foreground and background colour]
15	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 2.10.1	[Command performed successfully]

PROACTIVE COMMAND: SEND DATA 2.10.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Send Data 1"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)
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	26	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	31
	B6	08	00	01	02	03	04	05	06	07	D0	04
	00	0B	00	B4								

PROACTIVE COMMAND: SEND DATA 2.10.2

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: UICC
    Destination device: Channel 1
Alpha Identifier "Send Data 2"
Channel Data
    Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	20	81	03	01	43	01	82	02	81	21	85
	0B	53	65	6E	64	20	44	61	74	61	20	32
	B6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.10.1

Logically:

Command details
    Command number: 1
    Command type: SEND DATA
    Command qualifier: Send Immediately
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully
    Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

27.22.4.30.2.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.10.

27.22.4.31 GET CHANNEL STATUS

27.22.4.31.1 Definition and applicability

See clause 3.2.2.

27.22.4.31.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.31.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC after the ME receives the GET STATUS proactive command. The TERMINAL RESPONSE sent back to the UICC is function of the ME and the network capabilities against asked parameters by the UICC.

27.22.4.31.4 Method of test

27.22.4.31.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.31.4.2 Procedure

Expected sequence 1.1 (GET STATUS, without any BIP channel opened)

For that test, no channel has been opened.

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: GET STATUS 1.1.1	
4	ME → UICC	TERMINAL RESPONSE GET STATUS 1.1.1 A Or TERMINAL RESPONSE: GET STATUS 1.1.1B Or TERMINAL RESPONSE: GET STATUS 1.1.1C	[Command performed successfully]

PROACTIVE COMMAND: GET STATUS 1.1.1

Logically:

Command details
Command number: 1
Command type: GET STATUS
Command qualifier: RFU
Device identities
Source device: UICC
Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	44	00	82	02	81	82

TERMINAL RESPONSE: GET STATUS 1.1.1A

Logically:

Command details
Command number: 1
Command type: GET STATUS
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00

TERMINAL RESPONSE: GET STATUS 1.1.1B

Logically:

Command details
Command number: 1
Command type: GET STATUS
Command qualifier: RFU
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status
Channel status: No Channel available, link not established or PDP context not activated

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	00	00								

TERMINAL RESPONSE: GET STATUS 1.1.1C

Logically:

Command details
Command number: 1
Command type: GET STATUS
Command qualifier: RFU
Device identities
Source device: ME

Destination device: SIM
Result
General Result: Command performed successfully
Channel status
Channel 1 status: Channel identifier 1, Link not established or PDP context not activated

Channel 2 status: Channel identifier 2, Link not established or PDP context not activated

.

.

Channel n status: Channel identifier n, Link not established or PDP context not activated

The number of channel status data objects shall be same as the number of channels(n) supported by the ME

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	Note1											

Note1: The Terminal Response shall contain as many channel status TLVs as channels are supported by the ME. Each channel status TLV coding shall indicate the corresponding channel identifier and shall state "Link not established or PDP context not activated". As an example, if the mobile supports two channels then the corresponding channel status data objects coding would be : 'B8 02 01 00 B8 02 02 00'.

Expected sequence 1.2 (GET STATUS, with a BIP channel currently opened)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USS	PDP context activation request	
5	USS → ME	PDP context activation accept	
6	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
7	UICC → ME	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 1.2.1	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: GET STATUS 1.2.1	
10	ME → UICC	TERMINAL RESPONSE GET STATUS 1.2.1 A Or TERMINAL RESPONSE: GET STATUS 1.2.1B	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: UICC
Destination device: ME

Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	03	04	03	04	1F	02	39	02	03	E8
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	03	E8							

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: Command performed successfully

Channel status: Channel identifier 1 and link established or PDP context activated

Bearer description
- Bearer type: GPRS
- Bearer parameter:
- Precedence Class: 00
- Delay Class: 04
- Reliability Class: 03
- Peak throughput class: 04
- Mean throughput class: 31
- Packet data protocol: 02 (IP)

Buffer
- Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	03	E8							

PROACTIVE COMMAND: GET STATUS 1.2.1

Logically:

Command details
- Command number: 1
- Command type: GET STATUS
- Command qualifier: RFU

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

Coding:

BER-TLV:	D0	09	81	03	01	44	00	82	02	81	82

TERMINAL RESPONSE: GET STATUS 1.2.1A

Logically:

Command details
- Command number: 1
- Command type: GET STATUS
- Command qualifier: RFU

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

Result
- General Result: Command performed successfully

Channel status
- Channel status: Channel 1 open, link established or PDP context activated

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	81	00								

TERMINAL RESPONSE: GET STATUS 1.2.1B

Logically:

Command details
    Command number: 1
    Command type: GET STATUS
    Command qualifier: RFU
Device identities
    Source device: ME
    Destination device: SIM
Result
    General Result: Command performed successfully
Channel status
    Channel 1 status: Channel identifier 1 open, Link established or PDP context activated

    Channel 2 status: Channel identifier 2, Link not established or PDP context not activated

    .

    .

    Channel n status: Channel identifier n, Link not established or PDP context not activated

The number of channel status data objects shall be same as the number of channels(n) supported by the ME

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	Note1											

Note1: The Terminal Response shall contain as many channel status TLVs as channels are supported by the ME. The channel status TLV coding of the opened channel shall state "Link established or PDP context activated". Each other channel status TLV coding shall indicate the corresponding channel identifier and shall state "Link is not established or PDP context not activated". 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'.

Expected sequence 1.3 (GET STATUS, after a link dropped)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Command performed successfully]
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USS	PDP context activation request	
9	USS → ME	PDP context activation accept	
10	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
11	USS → ME	DROP LINK	
12	ME → UICC	ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1	[Link dropped]
13	UICC → ME	PROACTIVE COMMAND PENDING: GET STATUS 1.3.1	
14	ME → UICC	FETCH	
15	UICC → ME	PROACTIVE COMMAND: GET STATUS 1.3.1	
16	ME → UICC	TERMINAL RESPONSE: GET STATUS 1.3.1A Or TERMINAL RESPONSE: GET STATUS 1.3.1B Or TERMINAL RESPONSE: GET STATUS 1.3.1C Or TERMINAL RESPONSE: GET STATUS 1.3.1D Or TERMINAL RESPONSE: GET STATUS 1.3.1E	[Command performed successfully]

TERMINAL RESPONSE: GET STATUS 1.3.1A

Same as TERMINAL RESPONSE: GET STATUS 1.1.1A

TERMINAL RESPONSE: GET STATUS 1.3.1B

Same as TERMINAL RESPONSE: GET STATUS 1.1.1B

TERMINAL RESPONSE: GET STATUS 1.3.1C

Same as TERMINAL RESPONSE: GET STATUS 1.1.1C

TERMINAL RESPONSE: GET STATUS 1.3.1D

Logically:

Command details
Command number: 1
Command type: GET STATUS
Command qualifier: RFU
Device identities

Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status
Channel status: Channel 1, link dropped

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	01	05								

TERMINAL RESPONSE: GET STATUS 1.3.1E

Logically:

Command details
Command number: 1
Command type: GET STATUS
Command qualifier: RFU
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status
Channel 1 status: Channel identifier 1, link dropped

Channel 2 status: Channel identifier 2, Link not established or PDP context not activated

.

.

Channel n status: Channel identifier n, Link not established or PDP context not activated

The number of channel status data objects shall be same as the number of channels(n) supported by the ME

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	01	05	Note1							

Note1: The Terminal Response shall contain as many channel status TLVs as channels are supported by the ME. Each channel status TLV coding except that one for which the link was dropped by the SS shall indicate the corresponding channel identifier and shall state "Link not established or PDP context not activated". As an example, if the mobile supports two channels then the corresponding channel status data objects coding would be : 'B8 02 01 05 B8 02 02 00'.

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: ME
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 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP EVENT LIST
    Command qualifier: '00'
Device identities
    Source device: ME
    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 1.3.1

Logically:

Event list
    Event list: Channel Status
Device identities
    Source device: ME
    Destination device: UICC
Channel status
    Channel status: Channel 1, link dropped

Coding:

BER-TLV:	D6	0B	99	01	0A	82	02	82	81	B8	02	01
	05											

PROACTIVE COMMAND: GET STATUS 1.3.1

Logically:

Command details
    Command number: 1
    Command type: GET STATUS
    Command qualifier: RFU
Device identities
    Source device: UICC
    Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	44	00	82	02	81	82

27.22.4.31.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.5 Data Download to UICC

27.22.5.1 SMS-PP Data Download

27.22.5.1.1 Definition and applicability

See clause 3.2.2.

27.22.5.1.2 Conformance requirement

The ME shall support the Proactive UICC: SMS-PP Data Download facility as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 7.1, clause 8.1, clause 8.7, clause 8.13 and clause 11.
- TS 31.115 [28] clause 4.
- TS 23.038 [7] clause 4..

27.22.5.1.3 Test purpose

To verify that the ME transparently passes the "data download via SMS Point-to-point" messages to the UICC.

To verify that the ME returns the RP-ACK message back to the USS, if the UICC responds with '90 00' or '91 XX'.

To verify that the ME returns the RP-ERROR message back to the system Simulator, if the UICC responds with '62 XX' or '63 XX'.

To verify that the ME returns the response data from the UICC back to the USS in the TP-User-Data element of the RP-ACK message, if the UICC returns response data'.

27.22.5.1.4 Method of Test

27.22.5.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as Toolkit default.

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

The "data download via SMS-PP" service is available in the USIM Service Table.

27.22.5.1.4.2 Procedure

Expected Sequence 1.1 (void)

Expected Sequence 1.2 (SMS-PP Data Download, General Data Coding, Acknowledgement)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-PP Data Download Message 1.2.1	
2	ME → USER	The ME shall not display the message or alert the user of a short message waiting.	
3	ME → UICC	ENVELOPE: SMS-PP DOWNLOAD 1.2.2	
4	UICC → ME	SMS-PP Data Download UICC Acknowledgement 1.2.4	[SW1 / SW2 of '90 00'
5	ME → USS	SMS-PP Data Download UICC Acknowledgement 1.2.4 in the TP-User-Data element of the RP-ACK message. The values of protocol identifier and data coding scheme in RP-ACK shall be as in the original message.	

Expected Sequence 1.3 (SMS-PP Data Download, General Data Coding, FETCH, MORE TIME)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-PP Data Download Message 1.3.1	
2	ME → USER	The ME shall not display the message or alert the user of a short message waiting	
3	ME → UICC	ENVELOPE: SMS-PP DOWNLOAD 1.3.2	[SW1 / SW2 of '91 0B']
4	UICC → ME	PROACTIVE COMMAND PENDING: MORE TIME 1.3.4	
5	ME → USS	RP-ACK	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: MORE TIME 1.3.4	
8	ME → UICC	TERMINAL RESPONSE: MORE TIME 1.3.5	
9	UICC → ME	PROACTIVE UICC SESSION ENDED	

PROACTIVE COMMAND: MORE TIME 1.3.4

Logically:

Command details
  Command number: 1
  Command type: MORE TIME
  Command qualifier: "00"
Device identities
  Source device: UICC
  Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	02	00	82	02	81	82

TERMINAL RESPONSE: MORE TIME 1.3.5

Logically:

Command details
    Command number: 1
    Command type: MORE TIME
    Command qualifier: "00"
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

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

Expected Sequence 1.4 (void)

SMS-PP (Data Download) Message 1.2.1 / 1.3.1

Logically:

SMS TPDU	
TP-MTI	SMS-DELIVER
TP-MMS	No more messages waiting for the MS in this SC
TP-RP	TP-Reply-Path is not set in this SMS-DELIVER
TP-UDHI	TP-UD field contains only the short message
TP-SRI	A status report will not be returned to the SME
TP-OA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"1234"
TP-PID	(U)SIM Data download
TP-DCS	
Coding Group	General Data Coding
Compression	Text is uncompressed
Message Class	Class 2 (U)SIM Specific Message
Alphabet	8 bit data
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	13
TP-UD	"Short Message"

Coding:

Coding	04	04	91	21	43	7F	16	89	10	10	00	00
	00	00	0D	53	68	6F	72	74	20	4D	65	73
	73	61	67	65								

ENVELOPE: SMS-PP DOWNLOAD 1.2.2 / 1.3.2

Logically:

SMS-PP Download
    Device identities
    Source device: Network
    Destination device: UICC
    Address
    TON International number
    NPI "ISDN / telephone numbering plan"
    Dialling number string "112233445566778"
    SMS TPDU

TP-MTI	SMS-DELIVER
TP-MMS	No more messages waiting for the MS in this SC
TP-RP	TP-Reply-Path is not set in this SMS-DELIVER
TP-UDHI	TP-UD field contains only the short message
TP-SRI	A status report will not be returned to the SME
TP-OA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"1234"
TP-PID	(U)SIM Data download
TP-DCS	
Coding Group	General Data Coding
Compression	Text is uncompressed
Message Class	Class 2 (U)SIM Specific Message
Alphabet	8 bit data
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	13
TP-UD	"Short Message"

Coding:

BER-TLV:	D1	2D	82	02	83	81	06	09	91	11	22	33
	44	55	66	77	F8	8B	1C	04	04	91	21	43
	7F	16	89	10	10	00	00	00	00	0D	53	68
	6F	72	74	20	4D	65	73	73	61	67	65	

Expected Sequence 1.5 (void)

Expected Sequence 1.6 (SMS-PP Data Download, with Data Coding / Message Class)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-PP Data Download Message 1.6.1	
2	ME	The ME shall not display the message or alert the user of a short message waiting	
3	ME → UICC	ENVELOPE: SMS-PP DOWNLOAD 1.6.2	
4	UICC → ME	SW1 / SW2 of '90 00'	
5	ME → USS	RP-ACK	

SMS-PP (Data Download) Message 1.6.1

Logically:

SMS TPDU

TP-MTI	SMS-DELIVER
TP-MMS	No more messages waiting for the MS in this SC
TP-RP	TP-Reply-Path is not set in this SMS-DELIVER
TP-UDHI	TP-UD field contains only the short message
TP-SRI	A status report will not be returned to the SME
TP-OA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"1234"
TP-PID	(U)SIM Data download
TP-DCS	
Coding Group	Data Coding / Message Class
Message Coding	8 bit data
Message Class	Class 2 (U)SIM Specific Message
TP-SCTS:	01/01/98 00:00:00 +0

TP-UDL	13
TP-UD	"Short Message"

Coding:

Coding	04	04	91	21	43	7F	F6	89	10	10	00	00
	00	00	0D	53	68	6F	72	74	20	4D	65	73
	73	61	67	65								

ENVELOPE: SMS-PP DOWNLOAD 1.6.2

Logically:

SMS-PP Download

Device identities	
Source device:	Network
Destination device:	UICC
Address	
TON International number	
NPI "ISDN / telephone numbering plan"	
Dialling number string	"112233445566778"
SMS TPDU	
TP-MTI	SMS-DELIVER
TP-MMS	No more messages waiting for the MS in this SC
TP-RP TP-Reply-Path is not set in this SMS-DELIVER	
TP-UDHI	TP-UD field contains only the short message
TP-SRI	A status report will not be returned to the SME
TP-OA	
TON International number	
NPI "ISDN / telephone numbering plan"	
Address value	"1234"
TP-PID	(U)SIM Data download
TP-DCS	
Coding Group	Data Coding / Message Class
Message Coding	8 bit data
Message Class	Class 2 (U)SIM Specific Message
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	13
TP-UD	"Short Message"

Coding:

BER-TLV:	D1	2D	82	02	83	81	06	09	91	11	22	33
	44	55	66	77	F8	8B	1C	04	04	91	21	43
	7F	F6	89	10	10	00	00	00	00	0D	53	68
	6F	72	74	20	4D	65	73	73	61	67	65	

Expected Sequence 1.7 (SMS-PP Data Download error)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-PP Data Download Message 1.2.1	
2	ME → USER	The ME shall not display the message or alert the user of a short message waiting.	
3	ME → UICC	ENVELOPE: SMS-PP DOWNLOAD 1.2.2	[SW1 / SW2 of '62 xx" or "63 xx"]
4	UICC → ME	SMS-PP Data Download UICC Acknowledgement 1.2.4	
5	ME → UICC	Retrieve RP-Error information provided by the USIM	
6	ME → USS	SMS-PP Data Download UICC Acknowledgement 1.2.4 in the TP-User-Data element of the RP-ERROR message. The values of protocol identifier and data coding scheme in RP-ERROR shall be as in the original message.	

SMS-PP Data Download UICC Acknowledgement 1.2.4

Coding:

Coding	50	68	69	6C	20	48	6F	6F	6B	65	72

Expected Sequence 1.8 (SMS-PP Data Download, General Data Coding, User Data Header payload)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	SMS-PP Data Download Message 1.8.1	
2	ME	The ME shall not display the message or alert the user of a short message waiting	
3	ME → UICC	ENVELOPE: SMS-PP DOWNLOAD 1.8.2	
4	UICC → ME	SW1 / SW2 of '90 00'	
5	ME → USS	RP-ACK	

SMS-PP (Data Download) Message 1.8.1

Logically:

SMS TPDU

TP-MTI	SMS-DELIVER
TP-MMS	No more messages waiting for the MS in this SC
TP-RP	TP-Reply-Path is not set in this SMS-DELIVER
TP-UDHI	TP-UD field contains user data header and a short message
TP-SRI	A status report will not be returned to the SME
TP-OA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"1234"
TP-PID	(U)SIM Data download
TP-DCS	
Coding Group	Data Coding / Message Class
Message Coding	8 bit data
Message Class	Class 2 (U)SIM Specific Message
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	30

- TP-UD
    - TP-UDHL 2
    - IEI (U)SIM Toolkit Security Headers
    - IEIL 0
    - SM (8 bit data)
        - Command Packet Length: 25
        - Command Header Identifier: 0
        - Command Header Length: 13
        - Security Parameter Indicator: No RC, CC or DS and No PoR reply to the Sending Entity
        - Ciphering Key Identifier: Algorithm known implicitly by both entities
        - Key Identifier: Algorithm known implicitly by both entities
        - Toolkit Application Reference: Proprietary Toolkit Application
        - Counter: 1
        - Padding Counter: 0 (no padding is necessary)
        - Secure Data: 10 octets set to 'DC' (dummy data)

Coding:

Coding	44	04	91	21	43	7F	F6	89	10	10	00	00
	00	00	1E	02	70	00	00	19	00	0D	00	00
	00	00	BF	FF	00	00	00	00	00	01	00	DC
	DC	DC	DC	DC	DC	DC	DC	DC	DC			

ENVELOPE: SMS-PP DOWNLOAD 1.8.2

Logically:

- SMS-PP Download
    - Device identities
    - Source device: Network
    - Destination device: UICC
    - Address
    - TON International number
    - NPI "ISDN / telephone numbering plan"
    - Dialling number string "112233445566778"
    - SMS TPDU
    - TP-MTI SMS-DELIVER
    - TP-MMS No more messages waiting for the MS in this SC
    - TP-RP TP-Reply-Path is not set in this SMS-DELIVER
    - TP-UDHI TP-UD field contains user data header and a short message
    - TP-SRI A status report will not be returned to the SME
    - TP-OA
    - TON International number
    - NPI "ISDN / telephone numbering plan"
    - Address value "1234"
    - TP-PID (U)SIM Data download
    - TP-DCS
    - Coding Group Data Coding / Message Class
    - Message Coding 8 bit data
    - Message Class Class 2 (U)SIM Specific Message
    - TP-SCTS: 01/01/98 00:00:00 +0
    - TP-UDL 30
- TP-UD
    - TP-UDHL 2
    - IEI (U)SIM Toolkit Security Headers
    - IEIL 0
    - SM (8 bit data)
        - Command Packet Length: 25
        - Command Header Identifier: 0
        - Command Header Length: 13
        - Security Parameter Indicator: No RC, CC or DS and No PoR reply to the Sending Entity

Ciphering Key Identifier: Algorithm known implicitly by both entities
Key Identifier: Algorithm known implicitly by both entities
Toolkit Application Reference: Proprietary Toolkit Application
Counter: 1
Padding Counter: 0 (no padding is necessary)
Secure Data: 10 octets set to 'DC' (dummy data)

Coding:

BER-TLV:	D1	3E	82	02	83	81	06	09	91	11	22	33
	44	55	66	77	F8	8B	2D	44	04	91	21	43
	7F	F6	89	10	10	00	00	00	00	1E	02	70
	00	00	19	00	0D	00	00	00	00	BF	FF	00
	00	00	00	00	01	00	DC	DC	DC	DC	DC	DC
	DC	DC	DC	DC								

27.22.5.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.2 to 1.8.

27.22.5.2 Cell Broadcast Data Download

27.22.5.2.1 Definition and applicability

See clause 3.2.2.

27.22.5.2.2 Conformance requirement

The ME shall support the Proactive UICC: Cell Broadcast Data Download facility as defined in:

- TS 31.111 [15] clause 5, clause 7.1.2, clause 8.5, clause 8.7 and clause 11.
- TS 31.115 [28] clause 5.
- TS 23.038 [7] clause 5.

27.22.5.2.3 Test purpose

To verify that the ME transparently passes the "data download via Cell Broadcast" messages to the UICC, which contain a message identifier found in EF_{CBMID}.

27.22.5.2.4 Method of Test

27.22.5.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as Toolkit default with the following exeception:

EF PL shall contain an entry indicating "English".

A USS setting up only a GERAN or PCS 1900 cell shall be used for Expected sequence 1.1, 1.7 and 1.3.

A USS setting up only a UTRAN cell shall be used on and expected sequence 1.4, 1.5 and 1.6.

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

27.22.5.2.4.2 Procedure

Expected Sequence 1.1 (Cell Broadcast Data Download (GSM), ENVELOPE(CELL BROADCAST DOWNLOAD), ME does not display message)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	CELL BROADCAST 1.1	Message identifier '10 01'
2	ME → UICC	ENVELOPE (CELL BROADCAST DOWNLOAD) 1.1	
3	UICC → ME	SW1, SW2 '90 00'	

Cell Broadcast Message 1.1

Logically:

- Message Content
  - Serial Number
  - Geographical scope: Cell wide, normal display mode
  - Message code: 1
  - Update number: 1
  - Message Identifier: "1001"
  - Data coding Scheme
  - Message Coding: English, language using the GSM 7 bit default alphabet
  - Page Parameter
  - Total number of pages: 1
  - Page number: 1
  - Content of message: "Cell Broadcast "..

Coding:

Coding	C0	11	10	01	01	11	C3	32	9B	0D	12	CA
	DF	61	F2	38	3C	A7	83	40	20	10	08	04
	02	81	40	20	10	08	04	02	81	40	20	10
	08	04	02	81	40	20	10	08	04	02	81	40
	20	10	08	04	02	81	40	20	10	08	04	02
	81	40	20	10	08	04	02	81	40	20	10	08
	04	02	81	40	20	10	08	04	02	81	40	20
	10	08	04	02								

ENVELOPE: CELL BROADCAST DOWNLOAD 1.1

Logically:

- Cell Broadcast Download
  - Device identities
  - Source device: Network
  - Destination device: UICC
- Cell Broadcast page
  - Serial Number
  - Geographical scope: Cell wide, normal display mode
  - Message code: 1
  - Update number: 1
  - Message Identifier: "1001"
  - Data coding Scheme
  - Message Coding: English, language using the GSM 7 bit default alphabet
  - Page Parameter
  - Number of pages: 1
  - Page number: 1
  - Content of message: "Cell Broadcast "..

Coding:

BER-TLV:	D2	5E	82	02	83	81	8C	58	C0	11	10	01
	01	11	C3	32	9B	0D	12	CA	DF	61	F2	38
	3C	A7	83	40	20	10	08	04	02	81	40	20
	10	08	04	02	81	40	20	10	08	04	02	81
	40	20	10	08	04	02	81	40	20	10	08	04
	02	81	40	20	10	08	04	02	81	40	20	10
	08	04	02	81	40	20	10	08	04	02	81	40
	20	10	08	04	02	81	40	20	10	08	04	02

Expected Sequence 1.2 (void)

Expected Sequence 1.3 (Cell Broadcast (GSM), ME may display the message)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	CELL BROADCAST 1.2	Message identifier '03 E7'
2a	ME → USER	ME may display the message	
2b	ME → UICC	ME shall not download the CB message to the UICC using ENVELOPE (CELL BROADCAST DOWNLOAD)	
3	USER → ME	The user shall use a MMI dependent procedure to initiate the display of the received CB message	[only if message has not been displayed in step 2a]
4	ME → USER	ME displays the message	[only if message has not been displayed in step 2a]

Cell Broadcast Message 1.2

Logically:

Message Content
    Serial Number
    Geographical scope: Cell wide, normal display mode
    Message code: 1
    Update number: 1
    Message Identifier: "03E7"
    Data coding Scheme
    Message Coding: English, language using the GSM 7 bit default alphabet
    Page Parameter
    Total number of pages: 1
    Page number: 1
    Content of message: "Cell Broadcast".

Coding:

Coding	C0	11	03	E7	01	11	C3	32	9B	0D	12	CA
	DF	61	F2	38	3C	A7	83	40	20	10	08	04
	02	81	40	20	10	08	04	02	81	40	20	10
	08	04	02	81	40	20	10	08	04	02	81	40
	20	10	08	04	02	81	40	20	10	08	04	02
	81	40	20	10	08	04	02	81	40	20	10	08
	04	02	81	40	20	10	08	04	02	81	40	20
	10	08	04	02								

Expected Sequence 1.4 (Cell Broadcast (UMTS), ENVELOPE (CELL BROADCAST DOWNLOAD), ME does not display message)

TBD

Expected Sequence 1.5 (Cell Broadcast (UMTS), ENVELOPE (CELL BROADCAST DOWNLOAD), FETCH, MORE TIME, ME does not display message)

TBD

Expected Sequence 1.6 (Cell Broadcast (UMTS), ME displays message)

TBD

Expected Sequence 1.7 (Cell Broadcast (GSM),, ENVELOPE(CELL BROADCAST DATA DOWNLOAD), FETCH, MORE TIME, ME does not display message, User Data Header Payload)

Step	Direction	MESSAGE / Action	Comments
1	USS → ME	CELL BROADCAST Message 1.7	Message identifier '10 01'
2	ME → UICC	ENVELOPE (CELL BROADCAST DOWNLOAD) 1.7	
3	UICC → ME	PROACTIVE COMMAND PENDING: MORE TIME 1.2	SW1/SW2 '61 0B'
4	ME → UICC	FETCH 1.2	
5	UICC → ME	PROACTIVE COMMAND:MORE TIME 1.2	
6	ME → UICC	TERMINAL RESPONSE: MORE TIME 1.2	
7	UICC → ME	SW1/SW2 '90 00'	UICC session ended

CELL BROADCAST Message 1.7

Logically:

Message Content
- Serial Number
- Geographical scope: Cell wide, normal display mode
- Message code: 1
- Update number: 1
- Message Identifier: "1001"
- Data coding Scheme
- Message Coding: 8 bit data
- Message class: Class 2 (U)SIM specific message
- Page Parameter
- Total number of pages: 1
- Page number: 1

Secured User Header (Content of message)
- TP-UDHL 2
- IEI (U)SIM Toolkit Security Headers
- IEIL 0
- Command Packet Length: 77
- Command Header Identifier: 0
- Command Header Length: 13
- Security Parameter Indicator: No RC, CC or DS and No PoR reply to the Sending Entity
- Ciphering Key Identifier: Algorithm known implicitly by both entities
- Key Identifier: Algorithm known implicitly by both entities
- Toolkit Application Reference: Proprietary Toolkit Application
- Counter: 1
- Padding Counter: 0 (no padding is necessary)
  - Secure Data: 62 octets set to "DC" (dummy data)

Coding:

Coding	C0	11	10	01	96	11	02	70	00	00	4D	00
	0D	00	00	00	00	BF	FF	00	00	00	00	00
	01	00	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
	DC	DC	DC	DC								

ENVELOPE: CELL BROADCAST DOWNLOAD 1.7

Logically:

Cell Broadcast Download
- Device identities
- Source device: Network
- Destination device: UICC

Cell Broadcast page
- Serial Number
- Geographical scope: Cell wide, normal display mode
- Message code: 1
- Update number: 1
- Message Identifier: "1001"
- Data coding Scheme
- Message Coding: 8 bit data (Message with User Data Header (UDH) structure)
- Message class: Class 2 (U)SIM specific message
- Page Parameter
- Number of pages: 1
- Page number: 1

Secured User Header (Content of message)
- TP-UDHL 2
- IEI (U)SIM Toolkit Security Headers
- IEIL 0
- Command Packet Length: 77
- Command Header Identifier: 0
- Command Header Length: 13
- Security Parameter Indicator: No RC, CC or DS and No PoR reply to the Sending Entity
- Ciphering Key Identifier: Algorithm known implicitly by both entities
- Key Identifier: Algorithm known implicitly by both entities
- Toolkit Application Reference: Proprietary Toolkit Application
- Counter: 1
- Padding Counter: 0 (no padding is necessary)
- Secure Data: 62 octets set to "DC" (dummy data)

Coding:

BER-TLV:	D2	5E	82	02	83	81	8C	58	C0	11	10	01
	96	11	02	70	00	00	4D	00	0D	00	00	00
	00	BF	FF	00	00	00	00	00	01	00	DC	DC
	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC
	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	DC

PROACTIVE COMMAND: MORE TIME 1.2

Logically:

Command details

Command number: 1
Command type: MORE TIME
Command qualifier: "00"
Device identities
Source device: UICC
Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	02	00	82	02	81	82

TERMINAL RESPONSE: MORE TIME 1.2

Logically:

Command details
Command number: 1
Command type: MORE TIME
Command qualifier: "00"
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

27.22.5.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.7.

27.22.6 CALL CONTROL BY USIM

27.22.6.1 Procedure for Mobile Originated calls

27.22.6.1.1 Definition and applicability

See clause 3.2.2.

27.22.6.1.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- TS 31.111 [15] clause 7.3

27.22.6.1.3 Test purpose

To verify that for all call set-up attempts , even those resulting from a SET UP CALL proactive UICC command, the ME shall first pass the call set-up details (dialled digits and associated parameters) to the UICC, using the ENVELOPE (CALL CONTROL).

To verify that if the UICC responds with '90 00', the ME shall set up the call with the dialled digits and other parameters as sent to the UICC.

To verify that if the UICC returns response data, the ME shall use the response data appropriately to set up the call as proposed, not set up the call, or set up a call using the data supplied by the UICC.

To verify that, in the case where the initial call set-up request results from a proactive SET UP CALL, if the call control result is "not allowed" or "allowed with modifications", the ME shall inform the UICC using TERMINAL RESPONSE "interaction with call control by UICC or MO short message control by UICC, action not allowed".

To verify that it is possible for the UICC to request the ME to set up an emergency call by supplying the number "112" as the response data.

27.22.6.1.4 Method of tests

27.22.6.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and USS and has performed the location update procedure.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

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

The elementary files are coded as USIM Application Toolkit default with the following exception:

The call control service is available in the USIM Service Table.

27.22.6.1.4.2 Procedure

Expected Sequence 1.1 (CALL CONTROL BY USIM , set up call attempt by user, the USIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.1.1A Or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for 3GPP parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	90 00	
4	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"

ENVELOPE CALL CONTROL 1.1.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International

NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	Note 5	00
	F1	10	00	01	00	01	Note 6	Note 4				

ENVELOPE CALL CONTROL 1.1.1B

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

Expected Sequence 1.2 (CALL CONTROL BY USIM , set up call attempt by user, allowed without modification)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.2.1 A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
4	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]

ENVELOPE CALL CONTROL 1.2.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (00F110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
    Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	Note 5	00
	F1	10	00	01	00	01	Note 6	Note 4				

ENVELOPE CALL CONTROL 1.2.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (001110)

LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

CALL CONTROL RESULT 1.2.1

Logically:

Call control result : '00' = Allowed, no modification

Coding:

BER-TLV:	00	00

Expected Sequence 1.3A (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, allowed without modification)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1 PENDING	[This test applies to MEs asking for user confirmation before sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[Set up call to "+012340123456"]
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → UICC	ENVELOPE CALL CONTROL 1.3.1A or ENVELOPE CALL CONTROL 1.3.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
8	ME → USS	The ME sets up the call without modification	[Set up call to "+012340123456"]
9	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]

Expected Sequence 1.3 B (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, allowed without modification)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1 PENDING	[This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[Set up call to "+012340123456"]
4	ME → UICC	ENVELOPE CALL CONTROL 1.3.1A or ENVELOPE CALL CONTROL 1.3.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
5	UICC → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
6	ME → USER	ME displays "+012340123456" during user confirmation phase.	
7	USER → ME	The user confirms the call set up	[user confirmation]
8	ME → USS	The ME sets up the call without modification	[Set up call to "+012340123456"]
9	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]

PROACTIVE COMMAND: SET UP CALL 1.3.1

Logically:

- Command details
  - Command number: 1
  - Command type: SET UP CALL
  - Command qualifier: Only if not currently busy on another call
- Device identities
  - Source device: UICC
  - Destination device: Network
- Alpha identifier: "+012340123456"
- Address
  - TON: International
  - NPI: "ISDN / telephone numbering plan"
  - Dialling number string "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

ENVELOPE CALL CONTROL 1.3.1A

Logically:

- Device identities
  - Source device: ME
  - Destination device: UICC
- Address
  - TON: International
  - NPI: "ISDN / telephone numbering plan" or "unknown"
  - Dialling number string "012340123456"
- Capability configuration parameters 1
  - This parameter is optional. If present, the contents shall not be checked.
- Subaddress

This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	Note 5	00	F1	10
	00	01	00	01	Note 6	Note 4					

ENVELOPE CALL CONTROL 1.3.1B

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	11	10
	00	01	00	01	Note 4						

Note 1: Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

CALL CONTROL RESULT 1.3.1

Logically:

Call control result : '00' = Allowed, no modification

Coding:

BER-TLV:	00	00

TERMINAL RESPONSE: SET UP CALL 1.3.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: Only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Command performed successfully

Coding:

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

Expected Sequence 1.4 (CALL CONTROL BY USIM , set up call attempt by user, not allowed)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.4.1 A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
4	ME → USS	The ME does not set up the call	

ENVELOPE CALL CONTROL 1.4.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "+01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (00F110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
    Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	Note 5	00
	F1	10	00	01	00	01	Note 6	Note 4				

ENVELOPE CALL CONTROL 1.4.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "+01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (001110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

CALL CONTROL RESULT 1.4.1

Logically:

    Call control result: '01' = not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 1.5A (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, not allowed)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1 PENDING	[This test applies to MEs asking for user confirmation before sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1	[Set up call to "+012340123456"
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → UICC	ENVELOPE CALL CONTROL 1.5.1A or ENVELOPE CALL CONTROL 1.5.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"]
8	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.5.1	[Permanent Problem - Interaction with Call Control by USIM]
9	ME → USS	The ME does not set up the call	

Expected Sequence 1.5 B (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, not allowed)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1 PENDING	[This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1	[Set up call to "+012340123456"
4	ME → UICC	ENVELOPE CALL CONTROL 1.5.1A or ENVELOPE CALL CONTROL 1.5.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
5	UICC → ME	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"] [No user confirmation phase because Call Control has disallowed the request]
6	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.5.1	[Permanent Problem - Interaction with Call Control by USIM]
7	ME → USS	The ME does not set up the call	

PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

Command details	
Command number:	1
Command type:	SET UP CALL
Command qualifier:	Only if not currently busy on another call
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"+012340123456"
Address	
TON:	International
NPI:	"ISDN / telephone numbering plan"
Dialling number string	"012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

ENVELOPE CALL CONTROL 1.5.1A

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	Note 5	00	F1	10
	00	01	00	01	Note 6	Note 4					

ENVELOPE CALL CONTROL 1.5.1B

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	11	10
	00	01	00	01	Note 4						

Note 1: Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

CALL CONTROL RESULT 1.5.1

Logically:

Call control result: '01' = not Allowed

Coding:

BER-TLV:	01	00

TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

Command details
    Command number: 1
    Command type: SET UP CALL
    Command qualifier: Only if not currently busy on another call
Device identities
    Source device: ME
    Destination device: UICC
Result
    General Result: Interaction with call control by USIM or MO short message control by USIM, permanent problem
    Additional information: Action not allowed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	02	39
	01											

Expected Sequence 1.6 (CALL CONTROL BY USIM , set up call attempt by user, allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.6.1 A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications",]
4	ME → USS	The ME sets up the call to "+010203"	

ENVELOPE CALL CONTROL 1.6.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (00F110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
    Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	Note 5	00
	F1	10	00	01	00	01	Note 6	Note 4				

ENVELOPE CALL CONTROL 1.6.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON: International
    NPI: "ISDN / telephone numbering plan" or "unknown"
    Dialling number string "01234567890123456789"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (001110)

LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

CALL CONTROL RESULT 1.6.1

Logically:

Call control result: '02' = Allowed with modifications
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "010203"

Coding:

BER-TLV:	02	06	86	04	91	10	20	30

Expected Sequence 1.7A (CALL CONTROL BY USIM, set up call attempt resulting from a set up call proactive command, allowed with modifications)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1 PENDING	[This test applies to MEs asking for user confirmation before sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1	[Set up call to "+012340123456"]
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → UICC	ENVELOPE CALL CONTROL 1.7.1A or ENVELOPE CALL CONTROL 1.7.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.7.1	[Call control result: "Allowed with modifications"]
8	ME → USS	The ME sets up the call to "+011111111111"	
9	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.7.1	[command performed successfully]

Expected Sequence 1.7 B (CALL CONTROL BY USIM, set up call attempt resulting from a set up call proactive command, allowed with modifications)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1 PENDING	[This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1	[Set up call to "+012340123456"]
4	ME → UICC	ENVELOPE CALL CONTROL 1.7.1A or ENVELOPE CALL CONTROL 1.7.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
5	UICC → ME	CALL CONTROL RESULT 1.7.1	[Call control result: "Allowed with modifications"]
6	ME → USER	ME displays "+012340123456" during user confirmation phase.	
7	USER → ME	The user confirms the call set up	[user confirmation]
8	ME → USS	The ME sets up the call to "+011111111111"	[call is set up to modified address]
9	ME → UICC	TERMINAL RESPONSE: SET UP CALL 1.7.1	[command performed successfully]

PROACTIVE COMMAND: SET UP CALL 1.7.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: Only if not currently busy on another call
Device identities
Source device: UICC
Destination device: Network
Alpha identifier: '+012340123456"
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

ENVELOPE CALL CONTROL 1.7.1A

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress

This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	Note 5	00	F1	10
	00	01	00	01	Note 6	Note 4					

ENVELOPE CALL CONTROL 1.7.1B

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	11	10
	00	01	00	01	Note 4						

Note 1: Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

CALL CONTROL RESULT 1.7.1

Logically:

Call control result: '02' = Allowed with modifications
Address
TON: International

NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "011111111111"

Coding:

BER-TLV:	02	09	86	07	91	10	11	11	11	11	11

TERMINAL RESPONSE: SET UP CALL 1.7.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: Only if not currently busy on another call
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully

Coding:

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

Expected Sequence 1.8 (CALL CONTROL BY USIM , set up call attempt by user, allowed with modifications: emergency call)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.8.1A or ENVELOPE CALL CONTROL 1.8.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters
3	UICC → ME	CALL CONTROL RESULT 1.8.1	[Call control result: "Allowed with modifications"]
4	ME → USS	The ME sets up an emergency call;	

ENVELOPE CALL CONTROL 1.8.1A

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	Note 5	00
	F1	10	00	01	00	01	Note 6	Note 4				

ENVELOPE CALL CONTROL 1.8.1B

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

CALL CONTROL RESULT 1.8.1

Logically:

Call control result Allowed, with modification
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Address value "112"

Coding:

BER-TLV:	02	05	86	03	81	11	F2

Expected Sequence 1.9 (CALL CONTROL BY USIM , set up call attempt by user, allowed with modifications: number in EF_{ECC})

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.9.1A or ENVELOPE CALL CONTROL 1.9.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.9.1	[Call control result: "Allowed with modifications"]
4	ME → USS	The ME sets up call with the dialled digits "1020". The ME does not set up an emergency call, but stes up a normal call	

ENVELOPE CALL CONTROL 1.9.1A

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	Note 5	00
	F1	10	00	01	00	01	Note 6	Note 4				

ENVELOPE CALL CONTROL 1.9.1B

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information

MCC & MNC	the mobile country and network code (001110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	11	10	00	01	00	01	Note 4					

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

CALL CONTROL RESULT 1.9.1

Logically:

Call control result	Allowed, with modification
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Address value	"1020"

Coding:

BER-TLV:	02	05	86	03	81	01	02

Expected Sequence 1.10 (CALL CONTROL BY USIM , set up call attempt by user to an emergency call)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "112"	
2	ME → UICC	The ME does not send any ENVELOPE CALL CONTROL	
3	ME → USS	The ME sets up an emergency call	

Expected Sequence 1.11 (CALL CONTROL BY USIM , set up call through call register, the USIM responds with '90 00')

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers allowed by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.1.1A or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	90 00	
4	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
5	USER → ME	End Call.	
6	USER → ME	Recall the last dialled number	
7	ME → UICC	ENVELOPE CALL CONTROL 1.1.1A or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
8	UICC → ME	90 00	
9	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
10	USER → ME	End Call.	

Expected Sequence 1.12 (CALL CONTROL BY USIM , set up call through call register, allowed without modification)

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers allowed by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.2.1A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
4	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
5	User → ME	End the call then call the last dialled number	
6	ME → UICC	ENVELOPE CALL CONTROL 1.2.1A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.2.1	
8	ME → USS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]

Expected Sequence 1.13 (CALL CONTROL BY USIM , set up call through call register, not allowed)

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers not allowed by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.4.1A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
4	ME → USS	The ME does not set up the call	
5	User → ME	The user calls the last dialled number	
6	ME → UICC	ENVELOPE CALL CONTROL 1.4.1A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
8	ME → USS	The ME does not set up the call	

Expected Sequence 1.14 (CALL CONTROL BY USIM , set up call through call register, allowed with modifications)

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers allowed with modification by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → UICC	ENVELOPE CALL CONTROL 1.6.1A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
4	ME → USS	The ME sets up the call to "+010203"	
5	User → ME	End call and then set up a call to "+01234567890123456789"	
6	ME → UICC	ENVELOPE CALL CONTROL 1.6.1A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
8	ME → USS	The ME sets up the call to "+010203"	

27.22.6.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.14.

27.22.6.2 Procedure for Supplementary (SS) Services

27.22.6.2.1 Definition and applicability

See clause 3.2.2.

27.22.6.2.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

- TS 31.111 [15] clause 7.3.1.2.

27.22.6.2.3 Test purpose

To verify that the ME first pass the supplementary service control string corresponding to the supplementary service operation to the USIM, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the UICC responds with '90 00', the ME shall send the supplementary service operation with the information as sent to the UICC.

To verify that, if the UICC returns response data, the ME shall use the response data appropriately to send the supplementary service operation as proposed, not send the SS operation, or instead send the USS operation using the data supplied by the UICC.

27.22.6.2.4 Method of tests

27.22.6.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

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

The elementary files are coded as USIM Application Toolkit default with the following exception:

The call control service is available in the USIM Service Table.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

27.22.6.2.4.2 Procedure

Expected Sequence 2.1 (CALL CONTROL BY USIM , send SS, the USIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → UICC	ENVELOPE CALL CONTROL 2.1.1A or ENVELOPE CALL CONTROL 2.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	90 00	
4	ME → USS	REGISTER 2.1A or REGISTER 2.1B	[The ME sends the supplementary service operation with the information as sent to the UICC]
5	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	

ENVELOPE CALL CONTROL 2.1.1A

Logically:

Device identities
Source device: ME
Destination device: UICC
SS String
TON/NPI: "FF"
Dialling number string "*21**10#"
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

BER-TLV:	D4	Note1	82	02	82	81	89	05	FF	2A	A1	1A
	B0	13	Note 2	00	F1	10	00	01	00	01	Note 3	

Note 1: Length of BER-TLV is '14' plus the actual length of all the present optional SIMPLE-TLV data objects

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

ENVELOPE CALL CONTROL 2.1.1B

Logically:

Device identities
Source device: ME
Destination device: UICC
SS String
TON/NPI: "FF"
Dialling number string "*21**10#"
Location Information
MCC & MNC the mobile country and network code (001110)

LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Coding:

BER-TLV:	D4	14	82	02	82	81	89	05	FF	2A	A1	1A
	B0	13	07	00	11	10	00	01	00	01		

REGISTER 2.1A

Logically (only SS argument):

ACTIVATE SS ARGUMENT
SS-Code:
- Call Forwarding Unconditional
TeleserviceCode
- All Tele Services

Coding:

Coding	30	06	04	01	21	83	01	00				

REGISTER 2.1B

Logically (only SS argument):

ACTIVATE SS ARGUMENT
SS-Code:
- Call Forwarding Unconditional
TeleserviceCode
- All Tele Services
LongFTN Supported

Coding:

Coding	30	08	04	01	21	83	01	00	84	00		

RELEASE COMPLETE (SS RETURN RESULT) 2.1

Logically (only from operation code):

ACTIVATE SS RETURN RESULT
ForwardingInfo
SS-Code
- Call Forwarding Unconditional
ForwardFeatureList
ForwardingFeature
TeleserviceCode
- All Tele Services
SS-Status
- state ind.: operative
- provision ind.: provisioned
- registration ind.: registered
- activation ind.: active

Coding:

Coding	0C	A0	0D	04	01	21	30	08	30	06	83	01
	00	84	01	07								

Expected Sequence 2.2 (CALL CONTROL BY USIM , send SS, allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → UICC	ENVELOPE CALL CONTROL 2.2.1A or ENVELOPE CALL CONTROL 2.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 2.2.1	[Call control result: "Allowed without modifications"]
4	ME → USS	REGISTER 2.1A or REGISTER 2.1B	The ME sends the supplementary service operation with the information as sent to the UICC
5	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	

ENVELOPE CALL CONTROL 2.2.1A

Logically:

Device identities	
Source device:	ME
Destination device:	UICC
SS String	
TON/NPI:	"FF"
Dialling number string	"*21**10#"
Location Information	
MCC & MNC	the mobile country and network code (00F110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)
Extended Cell ID	RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	89	05	FF	2A	A1	1A
	B0	13	Note 2	00	F1	10	00	01	00	01	Note 3	

Note 1: Length of BER-TLV is '14' plus the actual length of all the present optional SIMPLE-TLV data objects

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

ENVELOPE CALL CONTROL 2.2.1B

Logically:

Device identities	
Source device:	ME
Destination device:	UICC
SS String	
TON/NPI:	"FF"
Dialling number string	"*21**10#"
Location Information	
MCC & MNC	the mobile country and network code (001110)

LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Coding:

BER-TLV:	D4	14	82	02	82	81	89	05	FF	2A	A1	1A
	B0	13	07	00	11	10	00	01	00	01		

CALL CONTROL RESULT 2.2.1

Logically:

Call control result	Allowed, no modifications

Coding:

BER-TLV:	00	00

Expected Sequence 2.3 (CALL CONTROL BY USIM , send SS, not allowed)

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → UICC	ENVELOPE CALL CONTROL 2.3.1A or ENVELOPE CALL CONTROL 2.3.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 2.3.1	[Call control result: "Not Allowed"]
4	ME → USS	The ME does not send the supplementary service operation	

ENVELOPE CALL CONTROL 2.3.1A

Logically:

Device identities

Source device:	ME
Destination device:	UICC

SS String

TON/NPI:	"FF"
Dialling number string	"*21#"

Location Information

MCC & MNC	the mobile country and network code (00F110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)
Extended Cell ID	RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	89	03	FF	2A	B1	13
	Note 2	00	F1	10	00	01	00	01	Note 3			

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

ENVELOPE CALL CONTROL 2.3.1B

Logically:

Device identities
  Source device: ME
  Destination device: UICC
SS String
  TON/NPI: "FF"
  Dialling number string "*21#"
Location Information
  MCC & MNC the mobile country and network code (001110)
  LAC the location Area Code (0001)
  Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESULT 2.3.1

Logically:

Call control result Not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 2.4 (CALL CONTROL BY USIM , send SS, allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → UICC	ENVELOPE CALL CONTROL 2.4.1A or ENVELOPE CALL CONTROL 2.4.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 2.4.1	[Call control result: "Allowed with modifications"]
4	ME → USS	REGISTER 2.4A or REGISTER 2.4B	[The ME sends the supplementary service operation with the information as sent by the UICC]
5	USS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.4	

ENVELOPE CALL CONTROL 2.4.1A

Logically:

Device identities
  Source device: ME
  Destination device: UICC
SS String

TON/NPI:	"FF"
Dialling number string	"*21#"
Location Information	
MCC & MNC	the mobile country and network code (00F110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)
Extended Cell ID	RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	89	03	FF	2A	B1	13
	Note 2	00	F1	10	00	01	00	01	Note 3			

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

ENVELOPE CALL CONTROL 2.4.1B

Logically:

Device identities	
Source device:	ME
Destination device:	UICC
SS String	
TON/NPI:	"FF"
Dialling number string	"*21#"
Location Information	
MCC & MNC	the mobile country and network code (001110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESULT 2.4.1

Logically:

Call control result	Allowed, with modifications
SS String	
TON/NPI	"FF"
SS String	"*#21#"

Coding:

BER-TLV:	02	06	89	04	FF	BA	12	FB

REGISTER 2.4A

Logically (only SS argument):

INTERROGATE SS ARGUMENT
SS-Code
- Call Forwarding Unconditional

Coding:

BER-TLV	30	03	04	01	21

REGISTER 2.4B

Logically (only SS argument):

INTERROGATE SS ARGUMENT
SS-Code
- Call Forwarding Unconditional
LongFTN Supported

Coding:

BER-TLV	30	05	04	01	21	84	00

RELEASE COMPLETE (SS RETURN RESULT) 2.4

Logically (only from operation code):

INTERROGATE SS RESULT
Call Forwarding Unconditional
SS-Status
- state ind.: operative
- provision ind.: provisioned
- registration ind.: registered
- activation ind.: not active

Coding:

BER-TLV	80	01	06						

27.22.6.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.4.

27.22.6.3 Interaction with Fixed Dialling Number (FDN)

27.22.6.3.1 Definition and applicability

See clause 3.2.2.

27.22.6.3.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- TS 31.111 [15] clause 7.3.1.4.

27.22.6.3.3 Test purpose

To verify that the ME checks that the number entered through the MMI is on the FDN list.

To verify that, if the MMI input does not pass the FDN check, the call shall not be set up.

To verify that, if the MMI input does pass the FDN check, the ME shall pass the dialled digits and other parameters to the UICC, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the UICC responds with "allowed, no modification", the ME shall set up the call as proposed.

To verify that, if the UICC responds with "not allowed", the ME shall not set up the call.

To verify that, if the UICC responds with "allowed with modifications", the ME shall set up the call in accordance with the response from the UICC. If the modifications involve changing the dialled digits, the ME shall not re-check this modified number against the FDN list.

27.22.6.3.4 Method of tests

27.22.6.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

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

The elementary files are coded as SIM Application Toolkit default with the following exceptions:

The call control service is available in the USIM Service Table.

Fixed Dialling Number service is enabled.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

27.22.6.3.4.2 Procedure

Expected Sequence 3.1 (CALL CONTROL BY USIM , set up a call not in EF$_{FDN}$)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "4321"	
2	ME → UICC	The ME does not send the ENVELOPE (CALL CONTROL) command to the USIM.	
3	ME → USS	The ME does not set up the call.	

Expected Sequence 3.2 (CALL CONTROL BY USIM , set up a call in EF$_{FDN}$, the USIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "123"	
2	ME → UICC	ENVELOPE CALL CONTROL 3.2.1A or ENVELOPE CALL CONTROL 3.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	90 00	
4	ME → USS	The ME sets up the call without modification	[Set up call to "123"]

ENVELOPE CALL CONTROL 3.2.1A

Logically:

- Device identities
  - Source device: ME
  - Destination device: UICC
- Address
  - TON Unknown
  - NPI "ISDN / telephone numbering plan"
  - Dialling number string "123"
- Capability configuration parameters 1
  - This parameter is optional. If present, the contents shall not be checked.
- Subaddress
  - This parameter is optional. If present, the contents shall not be checked.
- Location Information
  - MCC & MNC the mobile country and network code (00F110)
  - LAC the location Area Code (0001)
  - Cell ID Cell Identity Value (0001)
- Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
- Capability configuration parameters 2
  - This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	Note 3	13	Note 5	00	F1	10	00	01	00	01	Note 6	Note 4

ENVELOPE CALL CONTROL 3.2.1B

Logically:

- Device identities
  - Source device: ME
  - Destination device: UICC
- Address
  - TON Unknown
  - NPI "ISDN / telephone numbering plan"
  - Dialling number string "123"
- Capability configuration parameters 1
  - This parameter is optional. If present, the contents shall not be checked.
- Subaddress
  - This parameter is optional. If present, the contents shall not be checked.
- Location Information
  - MCC & MNC the mobile country and network code (001110)
  - LAC the location Area Code (0001)
  - Cell ID Cell Identity Value (0001)
- Capability configuration parameters 2
  - This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	Note 3	13	07	00	11	10	00	01	00	01	Note 4	

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

Expected Sequence 3.3 (CALL CONTROL BY USIM , set up a call in EF_{FDN}, Allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → UICC	ENVELOPE CALL CONTROL 3.3.1A or ENVELOPE CALL CONTROL 3.3.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 3.3.1	[Call control result: "Allowed without modifications"]
4	ME → USS	The ME sets up the call without modification	[Set up call to "9876"]

ENVELOPE CALL CONTROL 3.3.1A

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Dialling number string "9876"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	Note 5	00	F1	10	00	01	00	01	Note 6	Note 4

ENVELOPE CALL CONTROL 3.3.1B

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Dialling number string "9876"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC	the mobile country and network code (001110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	07	00	11	10	00	01	00	01	Note 4	

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

CALL CONTROL RESULT 3.3.1

Logically:

Call control result	Allowed, no modifications

Coding:

BER-TLV:	00	00

Expected Sequence 3.4 (CALL CONTROL BY USIM , set up a call in EF_{FDN} , Not Allowed)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → UICC	ENVELOPE CALL CONTROL 3.4.1A or ENVELOPE CALL CONTROL 3.4.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 3.4.1	[Call control result: "Not Allowed"]
4	ME → USS	The ME does not set up the call	

ENVELOPE CALL CONTROL 3.4.1A

Logically:

Device identities

Source device:	ME
Destination device:	UICC

Address

TON	Unknown
NPI	"ISDN / telephone numbering plan"
Dialling number string	"9876"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC	the mobile country and network code (00F110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)
Extended Cell ID	RNC-id value (for Rel-4 onwards), see also Note 6

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	Note 5	00	F1	10	00	01	00	01	Note 6	Note 4

ENVELOPE CALL CONTROL 3.4.1B

Logically:

Device identities

Source device:	ME
Destination device:	UICC

Address

TON	Unknown
NPI	"ISDN / telephone numbering plan"
Dialling number string	"9876"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC	the mobile country and network code (001110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	07	00	11	10	00	01	00	01	Note 4	

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

CALL CONTROL RESULT 3.4.1

Logically:

Call control result	Not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 3.5 (CALL CONTROL BY USIM , set up a call in EF_{FDN} , Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → UICC	ENVELOPE CALL CONTROL 3.5.1A or ENVELOPE CALL CONTROL 3.5.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 3.5.1	[Call control result: "Allowed with modifications"]
4	ME → USS	The ME sets up the call with data sent by the UICC	[Set up call to "3333"]

ENVELOPE CALL CONTROL 3.5.1A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON Unknown
    NPI "ISDN / telephone numbering plan"
    Dialling number string "9876"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (00F110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
    Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note3	13	Note 5	00	F1	10	00	01	00	01	Note 6	Note 4

ENVELOPE CALL CONTROL 3.5.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON Unknown
    NPI "ISDN / telephone numbering plan"
    Dialling number string "9876"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information

MCC & MNC	the mobile country and network code (001110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note3	13	07	00	11	10	00	01	00	01	Note 4	

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

CALL CONTROL RESULT 3.5.1

Logically:

Call control result	Allowed with modifications

Address

TON	Unknown
NPI	"ISDN / telephone numbering plan"
Address value	"3333"

Coding:

BER-TLV:	02	05	86	03	81	33	33

27.22.6.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1 to 3.5.

27.22.6.4 Support of Barred Dialling Number (BDN) service

27.22.6.4.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the ME. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of BDN the ME runs the BDN capability request procedure during UICC-Terminal initialisation. At the time an emergency call is setup using the emergency call code read from the EF_{ECC}, the Rel-4+ ME shall use the category of the emergency service indicated.

27.22.6.4.2 Conformance requirement

1) Recognising the state of the USIM (BDN enabled) the ME shall perform the UICC initialisation procedure as specified.

2) The ME shall prevent call set-up to any number stored in EF_{BDN} if BDN service is enabled.

3) The ME shall allow call set-up to any number stored in EF_{BDN} if BDN service is disabled.

4) Any change to the EF_{BDN} or EF_{EST} does request PIN2.

5) The ME allows call set-up of an emergency call, even if this number is stored in the USIM.

References:

- R99: TS 22.101[22], clause 8 and A.19;
- Rel-4: TS 22.101[22], clause 9 and A.20;
- Rel-5+: TS 22.101[22], clause 10 and A.21;
- TS 31.102[14], subclauses 4.2.44, 4.4.2.3, 5.1.1 and 5.3.2;
- TS 24.008[10], subclause 10.5.4.33;
- TS 31.111[15], subclause 7.3.1.5

27.22.6.4.3 Test purpose

1) To verify that the Terminal rejects call set-up to any number that has an entry in EF_{BDN} if BDN service is enabled.

2) To verify that the Terminal allows call set-up to any number not stored in EF_{BDN}.

3) To verify that the Terminal allows emergency call set-up even if the number is stored in EF_{BDN}.

4) To verify that the Rel-4+ Terminal reads correctly the emergency service category stored in $EF_{ECC.}$

5) To verify that, if the UICC responds with "not allowed", the ME does not set up the call.

6) To verify that, if the UICC responds with "allowed, no modification", the ME shall set up the call (or the supplementary service operation) as proposed.

7) To verify that, if the UICC responds with "allowed with modifications", the ME sets up the call in accordance with the response from the UICC. If the modifications involve changing the dialled number the ME does not re-check this modified number against the FDN list when FDN is enabled.

8) To verify that updating EF BDN or changing the status of BDN service shall be performed by the use of second application PIN only.

9) To verify that the ME allows call set up to a BDN number if BDN service is disabled.

27.22.6.4.4 Method of tests

27.22.6.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

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

The call control service is available in the USIM Service Table.

The elementary files are coded as USIM Application Toolkit default with the following exceptions:

Barred Dialling Number service is enabled.

Fixed Dialling Number service is disabled.

Only prior to the execution of expected sequence 4.3 the FDN service shall be enabled.

The Second Application PIN (key reference 81) shall be enabled, but not verified.

Only in expected sequence 4.2B EF_{ECC} shall be used with the following values:

EF_{ECC} (Emergency Call Codes)

Logically:	Emergency call code:	"122";
	Emergency call code alpha identifier:	"TEST";
	Emergency call Service Category:	"Mountain Rescue".

Coding:	B1	B2	B3	B4	B5	B6	B7	B8
Hex	21	F2	FF	54	45	53	54	10

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

27.22.6.4.4.2 Procedure

Expected Sequence 4.1 (CALL CONTROL BY USIM, BDN service enabled)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "+1357924680"	[Number as stored in record 1 of EF BDN]
2	ME → UICC	ENVELOPE CALL CONTROL 4.1.1A or ENVELOPE CALL CONTROL 4.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 4.1.1	[Call control result: "Not Allowed"]
4	ME → USS	The ME does not set up the call	
5	User → ME	The user sets up a call to the number stored in record 1 of EF ADN	
6	ME → UICC	ENVELOPE CALL CONTROL 4.1.2A or ENVELOPE CALL CONTROL 4.1.2B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	UICC → ME	CALL CONTROL RESULT 4.1.2	[Call control result: "Allowed without modifications"]
8	ME → USS	The ME sets up the call without modification	
9	User → ME	The user sets up a call to '123456'	
10	ME → UICC	ENVELOPE CALL CONTROL 4.1.3A or ENVELOPE CALL CONTROL 4.1.3B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
11	UICC → ME	CALL CONTROL RESULT 4.1.2	[Call control result: "Allowed without modifications"]
12	ME → USS	The ME sets up the call without modification	
13	User → ME	The user sets up a call to "1111"	
14	ME → UICC	ENVELOPE CALL CONTROL 4.1.4A or ENVELOPE CALL CONTROL 4.1.4B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
15	UICC → ME	CALL CONTROL RESULT 4.1.3	[Call control result: "Allowed with modifications"]
16	ME → USS	The ME sets up the call with data sent by the UICC	[Set up call to "2222"]
17	User → ME	The user shall use a MMI dependent procedure to initiate the disabling of the BDN service	
18	ME → User	Ask for second application PIN verification	
19	User → ME	The user shall enter the second application PIN	
20	ME → UICC	Update EF EST to disable BDN service	
21	UICC → ME	UICC responds with SW = '90 00'	
22	ME → User	Indicate that the BDN service was disabled successfully	
23	User → ME	The user uses the MMI to store the directory number "+876543210" in EF_{BDN} as barred dialling number 1 (record 1).	[The alpha identifier is not changed.]
24	ME → UICC	Update EF BDN	
25	UICC → ME	UICC responds with SW = '90 00'	
26	ME → User	The user attempts to set up a call to '+876543210'.	
27a	ME → UICC	No Envelope call control is sent	

27b	ME → USS	The ME sets up the call without modification	

ENVELOPE CALL CONTROL 4.1.1A

Logically:

- Device identities
  - Source device: ME
  - Destination device: UICC
- Address
  - TON International
  - NPI "ISDN / telephone numbering plan"
  - Dialling number string "1357924680"
- Capability configuration parameters 1
  - This parameter is optional. If present, the contents shall not be checked.
- Location Information
  - MCC & MNC the mobile country and network code (00F110)
  - LAC the location Area Code (0001)
  - Cell ID Cell Identity Value (0001)
- Capability configuration parameters 2
  - This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	06	91	31	75	29
	64	08	Note 2	13	Note 4	00	F1	10	00	01	00	01
	Note5	Note 3										

ENVELOPE CALL CONTROL 4.1.1B

Logically:

- Device identities
  - Source device: ME
  - Destination device: UICC
- Address
  - TON International
  - NPI "ISDN / telephone numbering plan"
  - Dialling number string "1357924680"
- Capability configuration parameters 1
  - This parameter is optional. If present, the contents shall not be checked.
- Location Information
  - MCC & MNC the mobile country and network code (001110)
  - LAC the location Area Code (0001)
  - Cell ID Cell Identity Value (0001)
- Capability configuration parameters 2
  - This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	06	91	31	75	29
	64	08	Note 2	13	07	00	11	10	00	01	00	01
	Note 3											

Note 1: Length of BER-TLV is '15' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 4: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 5: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

ENVELOPE CALL CONTROL 4.1.2A

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Dialling number string "123"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 5
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	13	Note 4	00	F1	10	00	01	00	01	Note 5	Note 3	

ENVELOPE CALL CONTROL 4.1.2B

Logically:

Device identities
Source device: ME
Destination device: UICC
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Dialling number string "123"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	13	07	00	11	10	00	01	00	01	Note 3		

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 4: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 5: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

ENVELOPE CALL CONTROL 4.1.3A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON Unknown
    NPI "ISDN / telephone numbering plan"
    Dialling number string "123456"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (00F110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 5
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	04	81	21	43	65
	Note 2	13	Note 4	00	F1	10	00	01	00	01	Note 5	Note 3

ENVELOPE CALL CONTROL 4.1.3B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON Unknown
    NPI "ISDN / telephone numbering plan"
    Dialling number string "123456"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (001110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	04	81	21	43	65
	Note 2	13	07	00	11	10	00	01	00	01	Note 3	

Note 1: Length of BER-TLV is '13' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 4: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'.

Note 5: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

ENVELOPE CALL CONTROL 4.1.4A

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON Unknown
    NPI "ISDN / telephone numbering plan"
    Dialling number string "1111"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (00F110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
    Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 5
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	11	11	Note 2
	13	Note 4	00	F1	10	00	01	00	01	Note 5	Note 3	

ENVELOPE CALL CONTROL 4.1.4B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON Unknown
    NPI "ISDN / telephone numbering plan"
    Dialling number string "1111"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (001110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	11	11	Note 2
	13	07	00	11	10	00	01	00	01	Note 3		

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 4: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 5: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

CALL CONTROL RESULT 4.1.1

Logically:

Call control result	Not Allowed

Coding:

BER-TLV:	01	00

CALL CONTROL RESULT 4.1.2

Logically:

Call control result	Allowed, no modifications

Coding:

BER-TLV:	00	00

CALL CONTROL RESULT 4.1.3

Logically:

Call control result	Allowed with modifications
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Address value	"2222"

Coding:

BER-TLV:	02	05	86	03	81	22	22

Expected Sequence 4.2A (CALL CONTROL BY USIM, BDN service enabled, interaction with emergency call codes, R99 only)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up an emergency call to an emergency number stored in the terminal.	The used emergency number shall be one of the emergency call codes, which are available when a SIM/USIM is present, according to TS 22.101[22], subclause 8 is used (i.e. "112", or "911").
2a	ME → UICC	No Envelope call control is sent	
2b	ME → USS	The ME shall allow an emergency call by indicating the call setup as "Emergency Call'.	
3	User → ME	End the emergency call.	

Expected Sequence 4.2B (CALL CONTROL BY USIM, BDN service enabled, interaction with emergency call codes, Rel-4+)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up an emergency call to an emergency number stored in the terminal.	The used emergency number shall be one of the emergency call codes, which are available when a SIM/USIM is present, according to TS 22.101[22], subclause 9 (Rel-4) or 10 (Rel-5+) is used (i.e. "112", or "911").
2a	ME → UICC	No Envelope call control is sent	
2b	ME → USS	The ME shall allow an emergency call by indicating the call setup as "Emergency Call'.	
3	User → ME	End the emergency call.	
4	User → ME	The user sets up an emergency call to an emergency number stored in the USIM.	
5a	ME → UICC	No Envelope call control is sent	
5b	ME → USS	The ME shall allow an emergency call by sending the emergency service category correctly as 'Mountain Rescue'.	
6	User → ME	End the emergency call.	

Expected Sequence 4.3 (CALL CONTROL BY USIM , FDN and BDN enabled, set up a call in EF_{FDN}, Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "123"	
2	ME → UICC	ENVELOPE CALL CONTROL 4.3.1A or ENVELOPE CALL CONTROL 4.3.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	CALL CONTROL RESULT 4.3.1	[Call control result: "Allowed with modifications"]
4	ME → USS	The ME sets up the call with data sent by the UICC	[Set up call to "24680"the ME does not re-check this modified number against the FDN list]

ENVELOPE CALL CONTROL 4.3.1A

Logically:

Device identities
  Source device: ME
  Destination device: UICC
Address
  TON Unknown
  NPI "ISDN / telephone numbering plan"
  Dialling number string "123"
Capability configuration parameters 1
  This parameter is optional. If present, the contents shall not be checked.
Subaddress
  This parameter is optional. If present, the contents shall not be checked.
Location Information
  MCC & MNC the mobile country and network code (00F110)
  LAC the location Area Code (0001)
  Cell ID Cell Identity Value (0001)
  Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 5
Capability configuration parameters 2
  This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	13	Note 4	00	F1	10	00	01	00	01	Note 5	Note 3	

ENVELOPE CALL CONTROL 4.3.1B

Logically:

Device identities
    Source device: ME
    Destination device: UICC
Address
    TON Unknown
    NPI "ISDN / telephone numbering plan"
    Dialling number string "123"
Capability configuration parameters 1
    This parameter is optional. If present, the contents shall not be checked.
Subaddress
    This parameter is optional. If present, the contents shall not be checked.
Location Information
    MCC & MNC the mobile country and network code (001110)
    LAC the location Area Code (0001)
    Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
    This parameter is optional. If present, the contents shall not be checked.

Coding:

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	13	07	00	11	10	00	01	00	01	Note 3		

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 4: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 5: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

CALL CONTROL RESULT 4.3.1

Logically:

Call control result Allowed with modifications
Address
    TON Unknown
    NPI "ISDN / telephone numbering plan"
    Address value "24680"

Coding:

BER-TLV:	02	06	86	04	81	42	86	F0		

27.22.6.4.5 Test requirement

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

27.22.6.5 Barred Dialling Number (BDN) service handling for terminals not supporting BDN

27.22.6.5.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the ME. The call restrictions are controlled by the Terminal. If BDN is enabled, an ME which does not support Call Control shall allow emergency calls but shall not allow MO-CS calls.

27.22.6.5.2 Conformance requirement

1) Recognising the state of the USIM (BDN enabled) the ME shall perform the UICC initialisation procedure as specified.

2) The ME shall prevent MO-CS call set-up to any number except to emergency call numbers if the BDN service is enabled.

References:

- Rel-5+: TS 22.101[22], clause 10 and A.21;

  TS 31.102[14], subclauses 4.2.44, 4.4.2.3, 5.1.1.2 and 5.3.2;

  TS 31.111[15], subclause 7.3.1.5

27.22.6.5.3 Test purpose

1) To verify that the Terminal rejects MO-CS call set-up to any number except to emergency call numbers if BDN service is enabled.

2) To verify that the Terminal allows emergency call set-up even if the BDN service is enabled.

27.22.6.5.4 Method of tests

27.22.6.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

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

The call control service is available in the USIM Service Table.

The elementary files are coded as USIM Application Toolkit default with the following exceptions:

Barred Dialling Number service is enabled.

27.22.6.5.4.2 Procedure

Expected Sequence 5.1 (CALL CONTROL BY USIM, BDN service enabled, ME not supporting BDN)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "+1357924680"	[Number as stored in record 1 of EF BDN]
2a	ME → UICC	No ENVELOPE CALL CONTROL is sent	
2b	ME → USS	The ME does not set up the call	
3	User → ME	The user sets up a call to the number stored in record 1 of EF ADN	
4a	ME → UICC	No ENVELOPE CALL CONTROL is sent	
4b	ME → USS	The ME does not set up the call	
5	User → ME	The user sets up an emergency call to "112"	
6a	ME → UICC	No ENVELOPE CALL CONTROL is sent	
6b	ME → USS	The ME sets up the emergency call to "112"	
7	User → ME	The user shall terminate the emergency call after 5 seconds. The ME returns to idle mode.	

27.22.7 EVENT DOWNLOAD

27.22.7.1 MT Call Event

27.22.7.1.1 MT Call Event (normal)

27.22.7.1.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.1.1.2 Conformance requirement

The ME shall support the EVENT: MT Call event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

27.22.7.1.1.3 Test purpose

To verify that the ME informs the UICC that an Event: MT Call has occurred using the ENVELOPE (EVENT DOWNLOAD - MT Call) command.

27.22.7.1.1.4 Method of test

27.22.7.1.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.1.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD -MT Call event)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	USS → ME	CALL SET UP without CLI	[MT Call Set Up Without CLI]
6	ME → UICC	ENVELOPE: EVENT DOWNLOAD - MT Call 1.1.1	
7	USS → ME	CALL DISCONNECT	
8	USS → ME	CALL SET UP with CLI	[MT Call Set Up With CLI]
9	ME → UICC	ENVELOPE: EVENT DOWNLOAD - MT Call 1.1.2	
10	USS → ME	CALL DISCONNECT	

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: ME
Event list
 Event 1: MT call

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	00										

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: ME
 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 - MT CALL 1.1.1

Logically:

Event list: MT call event
Device identities
    Source device: Network
    Destination device: UICC
Transaction identifier:
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	00	82	02	83	81	1C	01	00

EVENT DOWNLOAD - MT CALL 1.1.2

Logically:

Event list: MT call event
Device identities
    Source device: Network
    Destination device: UICC
Transaction identifier:
    Ti value: 0 (bit 5-7)
    Ti flag: 0 (bit 8)
Address:
    TON Unknown
    NPI "ISDN / telephone numbering plan"
    Dialling number string "9876"

Coding:

BER-TLV:	D6	0F	19	01	00	82	02	83	81	1C	01	00
	86	03	81	89	67							

27.22.7.1.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

27.22.7.2 Call Connected Event

27.22.7.2.1 Call Connected Event (MT and MO call)

27.22.7.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.2.1.2 Conformance requirement

The ME shall support the EVENT: Call Connected event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

27.22.7.2.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Call Connected has occurred using the ENVELOPE (EVENT DOWNLOAD -Call Connected) command.

27.22.7.2.1.4 Method of test

27.22.7.2.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.2.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD -CALL CONNECTED)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Call Connected active]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	USS → ME	SETUP	[MT Call] Ti = 0
6	USER → ME	Accept Call Set Up	
7	ME→USS	CONNECT	
8	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Call Connected 1.1.1	
9	USS → ME	DISCONNECT	
10	USER → ME	Initiate Call to "123"	
11	ME → USS	SETUP	[MO Call] Ti = 0
12	USS → ME	CONNECT	
13	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Call Connected 1.1.2	
14	USER → ME	End Call	
15	ME → USS	DISCONNECT	

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: ME
Event list
    Event 1: Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

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: ME
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 - CALL CONNECTED 1.1.1

Logically:

Event list: Call connected
Device identities
Source device: ME
Destination device: UICC
Transaction identifier:
Ti value: 0 (bit 5-7)
Ti flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	01	82	02	82	81	1C	01	80

EVENT DOWNLOAD - CALL CONNECTED 1.1.2

Logically:

Event list: Call connected
Device identities
Source device: Network
Destination device: UICC
Transaction identifier:
Ti value: 0 (bit 5-7)
Ti flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	01	82	02	83	81	1C	01	80

27.22.7.2.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

27.22.7.2.2 Call Connected Event (ME supporting SET UP CALL)

27.22.7.2.2.1 Definition and applicability

See clause 3.2.2.

27.22.7.2.2.2 Conformance requirement

Additionally the ME shall support the SET UP CALL Proactive UICC Command as defined in:

- TS 31.111 [15] clause 7.5, clause 6.4.13 and clause 6.6.12.

27.22.7.2.2.3 Test purpose

To verify that the ME informs the UICC that an Event: Call Connected has occurred using the ENVELOPE (EVENT DOWNLOAD -Call Connected) command.

27.22.7.2.2.4 Method of test

27.22.7.2.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.2.2.4.2 Procedure

Expected Sequence 2.1 (EVENT DOWNLOAD -CALL CONNECTED, ME supporting SET UP CALL)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 2.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1	[EVENT: Call Connected active]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 2.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 2.1.1	
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: SET UP CALL 2.1.1	[SAT Call]
8	ME → USER	ME displays "+012340123456" during the user confirmation phase.	ME BEHAVIOUR: SET UP CALL
9	USER → ME	Confirm call set up	
10	ME → USS	SETUP	Ti=0
11	USS → ME	CONNECT	
12	ME → UICC	TERMINAL RESPONSE: SET UP CALL 2.1.1	
13	ME → UICC	ENVELOPE: CALL CONNECTED 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: '00'
Device identities
  Source device: UICC
  Destination device: ME
Event list
  Event 1: Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

TERMINAL RESPONSE: SET UP EVENT LIST 2.1.1

Logically:

Command details
	Command number: 1
	Command type: SET UP EVENT LIST
	Command qualifier: '00'
Device identities
	Source device: ME
	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 CALL 2.1.1

Logically:

Command details
	Command number: 1
	Command type: SET UP CALL
	Command qualifier: Only if not currently busy on another call
Device identities
	Source device: UICC
	Destination device: Network
Alpha identifier: "+012340123456"
Address
	TON: International
	NPI: "ISDN / telephone numbering plan"
	Dialling number string "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

TERMINAL RESPONSE: SET UP CALL 2.1.1

Logically:

Command details
	Command number: 1
	Command type: SET UP CALL
	Command qualifier: Only if not currently busy on another call
Device identities
	Source device: ME
	Destination device: UICC
Result
	General Result: Command performed successfully

Coding:

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

EVENT DOWNLOAD - CALL CONNECTED 2.1.1

Logically:

Event list:	Call connected
Device identities	
Source device:	Network
Destination device:	UICC
Transaction identifier:	
Ti value:	0 (bit 5-7)
Ti flag:	1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	01	82	02	83	81	1C	01	80

27.22.7.2.2.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 2.1'.

27.22.7.3 Call Disconnected Event

27.22.7.3.1 Call Disconnected Event

27.22.7.3.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.3.1.2 Conformance requirement

The ME shall support the EVENT: Call Disconnected event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

27.22.7.3.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Call Disconnected has occurred using the ENVELOPE (EVENT DOWNLOAD -Call Disconnected) command.

27.22.7.3.1.4 Method of test

27.22.7.3.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.3.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD -CALL DISCONNECTED)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Call Disconnected active]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	USS → ME	SETUP	[incoming call] Ti=0
6	USER → ME	Accept Call Set Up	
7	USS → ME	RELEASE	[MT RELEASE]
8	ME→ UICC	ENVELOPE: CALL DISCONNECTED 1.1.1	
9	USS → ME	SETUP	[incoming call] Ti=0
10	USER → ME	Accept Call Set Up	
11	USS → ME	RELEASE COMPLETE	[MT RELEASE COMPLETE]
12	ME→ UICC	ENVELOPE: CALL DISCONNECTED 1.1.1	
13	USS → ME	SETUP	[incoming call] Ti=0
14	USER → ME	Accept Call Set Up	
15	USER → ME	End Call	
16	ME → USS	DISCONNECT	[MO DISCONNECT]
17	ME → UICC	ENVELOPE: CALL DISCONNECTED 1.1.2A or ENVELOPE: CALL DISCONNECTED 1.1.2B or ENVELOPE: CALL DISCONNECTED 1.1.2C	
18	USS → ME	SETUP	[incoming call] Ti=0
19	USER → ME	Accept Call Set Up	
20	USS → ME	DISCONNECT	[MT DISCONNECT + CAUSE: normal call clearing]
21	ME→ UICC	ENVELOPE: CALL DISCONNECTED 1.1.3A or ENVELOPE: CALL DISCONNECTED 1.1.3B	
22	USS → ME	SETUP	Ti=0
23	USER → ME	Accept Call Set Up	
24	USS	TX POWER to XX	[RADIO LINK FAILURE]
25	ME→ UICC	ENVELOPE: CALL DISCONNECTED 1.1.4A or 1.1.4B	

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: ME
Event list
  Event 1: Call Disconnected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	02										

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: ME
- 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 - CALL DISCONNECTED 1.1.1

Logically:

Event list: Call Disconnected

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

Transaction identifier:
- Ti value: 0 (bit 5-7)
- Ti flag: 0 (bit 8)

Cause:

Coding:

BER-TLV:	D6	0A	19	01	02	82	02	83	81	1C	01	00

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.2A

Logically:

Event list: Call Disconnected

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

Transaction identifier:
- Ti value: 0 (bit 5-7)
- Ti flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	02	82	02	82	81	1C	01	80

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.2B

Logically:

Event list: Call Disconnected

Device identities

Source device: ME
Destination device: UICC
Transaction identifier:
Ti value: 0 (bit 5-7)
Ti flag: 1 (bit 8)
Cause: normal call clearing

Coding:

BER-TLV:	D6	0E	19	01	02	82	02	82	81	1C	01	80
	9A	02	60	90								

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.2C

Logically:

Event list: Call Disconnected
Device identities
Source device: ME
Destination device: UICC
Transaction identifier:
Ti value: 0 (bit 5-7)
Ti flag: 1 (bit 8)
Cause: normal call clearing

Coding:

BER-TLV:	D6	0E	19	01	02	82	02	82	81	1C	01	80
	9A	02	E0	90								

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.3A

Logically:

Event list: Call Disconnected
Device identities
Source device: Network
Destination device: UICC
Transaction identifier:
Ti value: 0 (bit 5-7)
Ti flag: 0 (bit 8)
Cause: normal call clearing

Coding:

BER-TLV:	D6	0E	19	01	02	82	02	83	81	1C	01	00
	9A	02	60	90								

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.3B

Logically:

Event list: Call Disconnected
Device identities
Source device: Network
Destination device: UICC
Transaction identifier:
Ti value: 0 (bit 5-7)
Ti flag: 0 (bit 8)
Cause: normal call clearing

Coding:

BER-TLV:	D6	0E	19	01	02	82	02	83	81	1C	01	00
	9A	02	E0	90								

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.4A

Logically:

Event list:	Call Disconnected
Device identities	
Source device:	ME
Destination device:	UICC
Transaction identifier:	
Ti value:	0 (bit 5-7)
Ti flag:	1 (bit 8)
Cause:	radio link failure

Coding:

BER-TLV:	D6	0C	19	01	02	82	02	82	81	1C	01	80
	9A	00										

EVENT DOWNLOAD - CALL DISCONNECTED 1.1.4B

Logically:

Event list:	Call Disconnected
Device identities	
Source device:	ME
Destination device:	UICC
Transaction identifier:	
Ti value:	0 (bit 5-7)
Ti flag:	0 (bit 8)
Cause:	radio link failure

Coding:

BER-TLV:	D6	0C	19	01	02	82	02	82	81	1C	01	00
	9A	00										

27.22.7.3.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

27.22.7.4 Location Status Event

27.22.7.4.1 Location Status Event (normal)

27.22.7.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.7.4.1.2 Conformance requirement

The ME shall support the EVENT: Location Status event as defined in:

- TS 31.111 [15] clause 7.5 and clause 6.4.16.

27.22.7.4.1.3 Test purpose

To verify that the ME informs the UICC that an Event: MM_IDLE state has occurred using the ENVELOPE (EVENT DOWNLOAD - Location Status) command.

27.22.7.4.1.4 Method of test

27.22.7.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

Two cells are defined. Cell 1 has location area code 1 and cell 2 has location area code 2.

MS is in service on Cell 1.

27.22.7.4.1.4.2 Procedure

Expected Sequence 1.1(EVENT DOWNLOAD -LOCATION STATUS)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	USS	Cell 1 is switched off	
6	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.1	
7	USS	Cell 2 is switched on after Location Status 'No service' has been received in step 6	
8	ME	ME performs cell reselection to cell 2	
9	ME → USS	LOCATION UPDATING REQUEST or ROUTING AREA UPDATE REQUEST	The ME is CS and/or PS registered depending on its capabilities
10	USS → ME	LOCATION UPDATING ACCEPT or ROUTING AREA UPDATE ACCEPT	
11	ME → USS	TMSI REALLOCATION COMPLETE or ROUTING AREA UPDATE COMPLETE	
12	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.2A or ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.2B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters] [Note: The inclusion of the location information is optional: (If location status indicates normal status)

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: ME
Event list
  Event 1: Location status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	03										

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: ME
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 - LOCATION STATUS 1.1.1

Logically:

Event list: Location status
Device identities
Source device: ME
Destination device: UICC
Location status: No service

Coding:

BER-TLV:	D6	0A	19	01	03	82	02	82	81	1B	01	02

EVENT DOWNLOAD - LOCATION STATUS 1.1.2A

Logically:

Event list: Location status
Device identities
Source device: ME
Destination device: UICC
Location status: normal service
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0002)
Cell ID Cell Identity Value (0002)
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

BER-TLV:	D6	Note 1	19	01	03	82	02	82	81	1B	01	00
	13	Note 2	00	F1	10	00	02	00	02	Note 3		

Note 1: Depending on the presence of the Extended Cell Identity Value the length is '13' or '15'

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

EVENT DOWNLOAD - LOCATION STATUS 1.1.2B

Logically:

Event list: Location status
Device identities
Source device: ME
Destination device: UICC

	Location status:	normal service
Location Information		
	MCC & MNC	the mobile country and network code (001110)
	LAC	the location Area Code (0002)
	Cell ID	Cell Identity Value (0002)

Coding:

BER-TLV:	D6	13	19	01	03	82	02	82	81	1B	01	00
	13	07	00	11	10	00	02	00	02			

27.22.7.4.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

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 ME shall support the EVENT DOWNLOAD -USER ACTIVITY as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.16, clause 6.8, clause 6.6.16, clause 6.11, clause 7.5, clause 8.6 and clause 8.25.

27.22.7.5.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.7.5.1.4.2, Expected Sequence 1.1.

27.22.7.5.1.5 Test requirement

The ME 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 ME shall support the EVENT: IDLE SCREEN AVAILABLE event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

27.22.7.6.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.7.6.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD - IDLE SCREEN AVAILABLE)

See ETSI TS 102 384 [26] in subclause 27.22.7.6.1.4.2, Expected Sequence 1.1.

27.22.7.6.1.5 Test requirement

The ME 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 ME shall support the EVENT: Call Card Reader Status event as defined in:

- TS 31.111 [15] clause 4.7, clause 4.9, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, clause 8.25, clause 8.33, annex F, annex G, clause 8.25 and clause 8.7.

27.22.7.7.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD - Card Reader Status) command.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs 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 ME is connected to the USIM Simulator.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.7.7.1.4.2, Expected Sequence 1.1.

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 ME shall support the EVENT: Call Card Reader Status event as defined in:

- TS 31.111 [15] clause 4.7, clause 4.9, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, clause 8.25, clause 8.33, annex F, annex G, clause 8.25 and clause 8.7.

27.22.7.7.2.3 Test purpose

To verify that the ME informs the UICC that an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD - Card Reader Status) command.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs 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 ME is connected to the USIM Simulator.

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.7.7.2.4.2, Expected Sequence 2.1.

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 ME shall support the EVENT: LANGUAGE SELECTION event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

27.22.7.8.1.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.7.8.1.4.2, Expected Sequence 1.1.

27.22.7.8.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.7.9 Browser termination event

27.22.7.9.1 Browser termination (normal)

27.22.7.9.1.1 Definition and applicability

This test is only applicable to ME's that support the EVENT: browser termination event driven information.

27.22.7.9.1.2 Conformance requirement

The ME shall support the EVENT: Browser termination event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, , clause 8.25, clause 8.51, annex F and clause 8.7.

27.22.7.9.1.3 Test purpose

To verify that the ME informs the UICC of an Event: Browser termination using the ENVELOPE (EVENT DOWNLOAD - Browser Termination) command.

This test applies for MEs which have a browser.

27.22.7.9.1.4 Method of test

27.22.7.9.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

A valid access to a Wap gateway is required. The default browser parameters (IP address, gateway/proxy identity, called number…) of the tested mobile shall be properly filled to access that gateway.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

27.22.7.9.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD - Browser termination)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Browser termination Status]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Successfully]
5	User→ME	Launch the browser with the URL selected by the user	
6	ME→USS	The ME attempts to launch the session with the default browser parameters and the URL selected by the user.	
7	User→ME	Stop the session and the browser.	
8	ME→ UICC	ENVELOPE: BROWSER TERMINATION 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: ME
Event list
    Event 1: Browser termination

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	08								

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:	ME
	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 BROWSER TERMINATION 1.1.1

Logically:

Event list		
	Event 1:	Browser termination
Device identities		
	Source device:	ME
	Destination device:	UICC
Browser termination cause:		User termination

Coding:

BER-TLV:	D6	0A	99	01	08	82	02	82	81	B4	01	00

27.22.7.9.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.7.10 Data available event

27.22.7.10.1 Definition and applicability

See clause 3.2.2.

27.22.7.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

Additionally the ME shall support ENVELOPE (EVENT DOWNLOAD - Data available).

27.22.7.10.3 Test purpose

To verify that the ME shall send an ENVELOPE (EVENT DOWNLOAD - Data available) to the UICC after the ME receives a packet of data from the server by the BIP channel previously opened.

27.22.7.10.4 Method of test

27.22.7.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure. The UICC must have sent the SET UP EVENT LIST to the ME to supply a set of events (event Data available).

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME''s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.7.10.4.2 Procedure

Expected sequence 1.1 (EVENT DOWNLOAD - Data available)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	[Command performed successfully]
4	ME → USER	The ME may display channel opening information	
5	ME → USS	PDP context activation request	
6	USS → ME	PDP context activation accept	
7	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
11	ME → USS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
12	ME → UICC	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
13	USS → ME	Data sent through the BIP channel using the ME's port number, which was retrieved in step 11	
14	ME → UICC	ENVELOPE 1.1.1 (Event-Data Available)	

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

Command details
  Command number: 1
  Command type: OPEN CHANNEL
  Command qualifier: immediate link establishment
Device identities
  Source device: UICC
  Destination device: ME
Bearer
  Bearer type: GPRS
  Bearer parameter:
    Precedence Class: 03
    Delay Class: 04
    Reliability Class: 03
    Peak throughput class: 04
    Mean throughput class: 31
    Packet data protocol: 02 (IP)
Buffer
  Buffer size: 1000
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
  Transport format: UDP
  Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	03	04	03	04	1F	02	39	02	03	E8
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	03	E8							

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03

Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	03	E8							

PROACTIVE COMMAND: SEND DATA 1.1.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: UICC
Destination device: Channel 1
Channel Data
Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	13	81	03	01	43	01	82	02	81	21	B6
	08	00	01	02	03	04	05	06	07			

TERMINAL RESPONSE: SEND DATA 1.1.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1

Logically:

Event list
Event: Data available
Device identities
Source device: ME
Destination device: UICC
Channel status

Channel status: Channel 1 open, link established
Channel Data Length
Channel data length: 8 Bytes available in Rx buffer

Coding:

BER-TLV:	D6	0E	99	01	09	82	02	82	81	B8	02	81
	00	B7	01	08								

27.22.7.10.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

27.22.7.11 Channel Status event

27.22.7.11.1 Definition and applicability

See clause 3.2.2.

27.22.7.11.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

Additionally the ME shall support ENVELOPE (EVENT DOWNLOAD - Channel Status).

27.22.7.11.3 Test purpose

To verify that the ME shall send an ENVELOPE (EVENT DOWNLOAD - Channel Status) to the UICC after the link dropped between the NETWORK and the ME.

27.22.7.11.4 Method of test

27.22.7.11.4.1 Initial conditions

The ME is connected to the USIM Simulator and the System Simulator. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME"s default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, for test cases using packet services:

Bearer Parameters

Precedence Class:	03
Delay Class:	04
Reliability Class:	03
Peak throughput class:	04
Mean throughput class:	31
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

UICC/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.7.11.4.2 Procedure

Expected sequence 1.1 (EVENT DOWNLOAD - Channel Status on a link dropped)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: channel status]
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
5	UICC → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → USS	PDP context activation request	
10	USS → ME	PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	USS → ME	Link dropped	
13	ME → UICC	ENVELOPE 1.1.1 (Event-Channel Status)	

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: ME
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 1.1.1

Logically:

Command details
    Command number: 1
    Command type: SET UP EVENT LIST
    Command qualifier: '00'
Device identities
    Source device: ME
    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 1.1.1

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL
    Command qualifier: immediate link establishment
Device identities
    Source device: UICC
    Destination device: ME
Bearer
    Bearer type: GPRS
    Bearer parameter:
    Precedence Class: 03
    Delay Class: 04
    Reliability Class: 03
    Peak throughput class: 04
    Mean throughput class: 31
    Packet data protocol: 02 (IP)
Buffer
    Buffer size: 1000
Network access name: TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
UICC/ME interface transport level
    Transport format: UDP
    Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	03	04	03	04	1F	02	39	02	03	E8
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details
    Command number: 1
    Command type: OPEN CHANNEL

Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	03	04	03	04	1F
	02	39	02	03	E8							

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: UICC
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	00	04	03	04	1F
	02	39	02	03	E8							

ENVELOPE: EVENT DOWNLOAD - Channel Status 1.1.1

Logically:

Event list
    Event: Channel Status
Device identities
    Source device: ME
    Destination device: UICC
Channel status
    Channel status: Channel 1, link dropped

Coding:

BER-TLV:	D6	0B	99	01	0A	82	02	82	81	B8	02	01
	05											

27.22.7.11.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

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 MO SHORT MESSAGE CONTROL BY USIM

27.22.8.1 Definition and applicability

See clause 3.2.2.

27.22.8.2 Conformance requirement

The ME shall support the MO SEND SHORT MESSAGE CONTROL facility as defined in:

- TS 31.111 [15] clause 7.3.2.

The ME shall also support the SEND SMS facitily as specified in

- TS 31.111 [15] clause 6.4.10

27.22.8.3 Test purpose

To verify that for all SMS sending attempts, even those resulting from a SEND SHORT MESSAGE proactive UICC command, the ME shall first pass the RP_destination_address of the service center and the TP_Destination_Address to the UICC, using the ENVELOPE (MO Short Message CONTROL).

To verify that if the UICC responds with '90 00', the ME shall send the SMS with the address unchanged.

To verify that if the UICC responds with '93 00', the ME shall not send the SMS and may retry the command.

To verify that if the UICC returns response data, the ME shall use the response data appropriately to send the SM as proposed, not send the SM, or send the SM using the data supplied by the UICC.

To verify that, in the case where the initial SM request results from a proactive SEND SHORT MESSAGE, if the MO SMS CONTROL result is "not allowed" or "allowed with modifications", the ME shall inform the UICC using TERMINAL RESPONSE "interaction with call control by UICC or MO short message control by USIM, action not allowed".

27.22.8.4 Method of tests

27.22.8.4.1 Initial conditions

The ME is connected to the System Simulator and the USIM Simulator.

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

The MO SMS control service is available in the USIM Service Table.

The SMS service center address in the ME shall be set to '+112233445566778' prior to the execution of the tests.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

27.22.8.4.2 Procedure

Expected Sequence 1.1 (MO SM CONTROL BY USIM , with Proactive command, Allowed, no modification')

Step	Direction	Message / Action	Comments
1	UICC -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> UICC	FETCH	
3	UICC -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A Or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
6	UICC -> ME	MO SMS CONTROL RESULT 1.1.1	['Allowed, no modification']
7	ME -> USS	Send SMS-PP Message 1.1	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
8	USS -> ME	SMS RP-ACK	
9	ME -> UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	UICC
Destination device:	Network
Alpha identifier:	"Send SM"
Address	
TON:	International number
NPI:	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

BER-TLV:	D0	37	81	03	01	13	00	82	02	81	83	85
	07	53	65	6E	64	20	53	4D	86	09	91	11
	22	33	44	55	66	77	F8	8B	18	01	00	09
	91	10	32	54	76	F8	40	F4	0C	54	65	73
	74	20	4D	65	73	73	61	67	65			

SMS-PP (SEND SHORT MESSAGE) Message 1.1

Logically:

SMS RPDU	
RP-Originator Address	not used
RP-Destination SMSC Address	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"112233445566778"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	

TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

Coding	00	09	91	11	22	33	44	55	66	77	F8	18
	01	01	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

ENVELOPE MO SHORT MESSAGE CONTROL 1.1.1A

Logically:

Device identities		
	Source device:	ME
	Destination device:	UICC
RP Destination Address		
	TON:	International
	NPI:	"ISDN / telephone numbering plan" or "unknown"
	Dialling number string	'112233445566778'
TP Destination Address		
	TON:	International
	NPI:	"ISDN / telephone numbering plan" or "unknown"
	Dialling number string	'012345678'
Location Information		
	MCC & MNC	the mobile country and network code (00F110)
	LAC	the location Area Code (0001)
	Cell ID	Cell Identity Value (0001)
	Extended Cell ID	RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

Coding	D5	Note 1	02	02	82	81	06	09	91	11	22
	33	44	55	66	77	F8	06	06	91	10	32
	54	76	F8	13	Note 2	00	F1	10	00	01	00
	01	Note 3									

Note 1: Length of BER-TLV is '20' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

ENVELOPE MO SHORT MESSAGE CONTROL 1.1.1B

Logically:

Device identities		
	Source device:	ME
	Destination device:	UICC
RP Destination Address		
	TON:	International
	NPI:	"ISDN / telephone numbering plan" or "unknown"
	Dialling number string	'112233445566778'

TP Destination Address
- TON: International
- NPI: "ISDN / telephone numbering plan" or "unknown"
- Dialling number string '012345678'

Location Information
- MCC & MNC the mobile country and network code (001110)
- LAC the location Area Code (0001)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D5	20	02	02	82	81	06	09	91	11	22
	33	44	55	66	77	F8	06	06	91	10	32
	54	76	F8	13	07	00	11	10	00	01	00
	01										

MO SHORT MESSAGE CONTROL RESULT 1.1.1

Logically:

MO Short Message control result : '00' = Allowed, no modification

Coding:

BER-TLV:	00	00

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing not required

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.2 (MO SM CONTROL BY USIM , with user SMS, Allowed, no modification')

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data 'Test Message' and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2.
2	ME -> UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC -> ME	MO SHORT MESSAGE CONTROL RESULT 1.1.1	['Allowed, no modification']
4	ME -> USS	Send SMS-PP Message 1.2	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.2 without modification]
5	USS -> ME	SMS RP-ACK	

SMS-PP (SEND SHORT MESSAGE) Message 1.2

Logically:

SMS RPDU		
	RP-Originator Address	not used
	RP-Destination SMSC Address	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"112233445566778"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	value shall not be verified
	TP-VPF	value shall not be verified
	TP-RP	value shall not be verified
	TP-UDHI	value shall not be verified
	TP-SRR	value shall not be verified
	TP-MR	"01"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345678"

Coding:

Coding	00	09	91	11	22	33	44	55	66	77	F8	Note 1
	Note 2	01	09	91	10	32	54	76	F8	Note 3		

Note 1: Octet shall not be verified

Note 2: Only the TP-MTI bits shall be verified

Note 3: The remaining octets shall not be verified

Expected Sequence 1.3 (MO SM CONTROL BY USIM , with Proactive command, Not allowed')

Step	Direction	Message / Action	Comments
1	UICC -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> UICC	FETCH	
3	UICC -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	
4	ME -> USER	Display "Send SM"	[The display of the Alpha Identifier shall not be verified]
5	ME -> UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
6	UICC -> ME	MO SHORT MESSAGE CONTROL RESULT 1.3.1	['not Allowed']
7	ME -> UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1	[Permanent Problem - Interaction with Call Control or MO short message control by USIM]
8	ME→ USS	The ME does not send the Short Message	

MO SHORT MESSAGE CONTROL RESULT 1.3.1

Logically:

MO Short Message control result : '01' = Not Allowed

Coding:

BER-TLV:	01	00

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1

Logically:

Command details	
Command number:	01
Command Type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Interaction with call control or MO-SM by USIM permanent problem
Additional information:	Action not allowed

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	02	39
	01											

Expected Sequence 1.4 (MO SM CONTROL BY USIM , with user SMS, Not allowed ')

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data 'Test Message' and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2.
2	ME -> UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC -> ME	MO SM CONTROL RESULT 1.3.1	['Not allowed']
4	ME → USS	The ME does not send the Short Message	

Expected Sequence 1.5 (MO SM CONTROL BY USIM , with Proactive command, Allowed with modifications')

Step	Direction	Message / Action	Comments
1	UICC -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> UICC	FETCH	
3	UICC -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	Send SMS to '+012345678'
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
6	UICC -> ME	MO SM CONTROL RESULT 1.5.1	['Allowed with modifications']
7	ME -> USS	Send SMS-PP Message 1.5	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.5 with the data provided by the UICC to the changed Service Center Address '+112233445566779']
8	USS -> ME	SMS RP-ACK	
9	ME -> UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1	

MO SHORT MESSAGE CONTROL RESULT 1.5.1

Logically:
MO Short Message control result : '02' = Allowed with modifications
RP Destination_Address of the Service Center
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string: '112233445566779'
TP Destination Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string: '012345679'

Coding:

02	13	86	09	91	11	22	33	44	55	66
77	F9	86	06	91	10	32	54	76	F9	

SMS-PP (SEND SHORT MESSAGE) Message 1.5

Logically:

SMS RPDU

RP-Originator Address	not used
RP-Destination SMSC Address	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"112233445566779"
SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"01"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345679"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

Coding	00	09	91	11	22	33	44	55	66	77	F9	18
	01	01	09	91	10	32	54	76	F9	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1

Logically:

Command details	
Command number:	01
Command Type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	ME
Destination device:	UICC
Result	
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00

Expected Sequence 1.6 (MO SM CONTROL BY USIM , with user SMS, Allowed with modifications')

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data 'Test Message' and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2.
2	ME -> UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC -> ME	MO SM CONTROL RESULT 1.5.1	['Allowed with modifications']
4	ME-> USS	Send SMS-PP Message 1.6	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1. 6 with the data provided by the UICC to the changed Service Center Address '+112233445566779']
5	USS -> ME	SMS RP-ACK	

SMS-PP (SEND SHORT MESSAGE) Message 1.6

Logically:

SMS RPDU		
	RP-Originator Address	not used
	RP-Destination SMSC Address	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"112233445566779"
SMS TPDU		
	TP-MTI	SMS-SUBMIT
	TP-RD	value shall not be verified
	TP-VPF	value shall not be verified
	TP-RP	value shall not be verified
	TP-UDHI	value shall not be verified
	TP-SRR	value shall not be verified
	TP-MR	"01"
	TP-DA	
	TON	International number
	NPI	"ISDN / telephone numbering plan"
	Address value	"012345679"

Coding:

Coding	00	09	91	11	22	33	44	55	66	77	F9	Note 1
	Note 2	01	09	91	10	32	54	76	F9	Note 3		

Note 1: Octet shall not be verified.

Note 2: Only the TP-MTI bits shall be verified.

Note 3: The remaining octets shall not be verified.

Expected Sequence 1.7 (MO SM CONTROL BY USIM , with Proactive command, the USIM responds with '90 00', Allowed, no modification)

Step	Direction	Message / Action	Comments
1	UICC -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> UICC	FETCH	
3	UICC -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	Send SMS to '+012345678'
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
6	UICC -> ME	90 00	
7	ME ->USS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
8	USS -> ME	SMS RP-ACK	
9	ME -> UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	

Expected Sequence 1.8 (MO SM CONTROL BY USIM , Send Short Message attempt by user, the USIM responds with '90 00', Allowed, no modification)

Step	Direction	Message / Action	Comments
1	User → ME	The user makes a SMS with the user data 'Test Message' and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2.
2	ME → UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1 A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	UICC → ME	90 00	
4	ME → USS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.2 without modification]
5	USS -> ME	SMS RP-ACK	

Expected Sequence 1.9void

27.22.8.5 Test requirement

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

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 ME shall support the facility as defined in ETSI TS 102 223 [16] clause 6.5.1, clause 6.8 and clause 8.6

27.22.9.3 Test purpose

To verify that the ME 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 ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

The ME 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)

See ETSI TS 102 384 [26] in subclause 27.22.9.4.2, Expected Sequence 1.1.

27.22.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1

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:

Coding:	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:

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							

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 31.111 §5.2	R99	M		PD_Pro_Dvnl
2	1.2	SMS-PP data download	TS 31.111 §5.2	R99	M		PD_SMS_PP
3	1.3	Cell Broadcast data download	TS 31.111 §5.2	R99	M		PD_CB
4	1.4	Menu selection	TS 31.111 §5.2	R99	C267 AND C268		PD_Menu_sel
5	1.5	Bit =1 if SMS-PP data Download supported	TS 31.111 §5.2	R99	M		PD_SMS_PP
6	1.6	Timer expiration	TS 31.111 §5.	R99	M		PD_TExpir
7	1.7	Bit=1 if Call control supported	TS 31.111 §5.2.	R99	C270		PD_CC
8	1.8	Bit=1 if Call control supported	TS 31.111 §5.2	R99	C270		PD_CC
9	2.1	Command result	TS 31.111 §5.2	R99	M		PD_Cmd_Res
10	2.2	Call Control by USIM	TS 31.111 §5.2	R99	C270		PD_CC
11	2.3	Bit=1 if Call control supported	TS 31.111 §5.2	R99	C270		PD_CC
12	2.4	MO short message control by USIM	TS 31.111 §5.2	R99	M		PD_MO_SMS_CC
13	2.5	Bit=1 if Call control supported	TS 31.111 §5.2	R99	C270		PD_CC
14	2.6	UCS2 Entry supported	TS 31.111 §5.2	R99	C203 AND C268		PD_UCS2_entry
15	2.7	UCS2 Display supported	TS 31.111 §5.2	R99	C204 AND C267		PD_UCS2_Display
16	2.8	Bit=1 if Display Text supported	TS 31.111 §5.2	R99	C267		PD_Display_Text
17	3.1	DISPLAY TEXT	TS 31.111 §5.2	R99	C267		PD_Display_Text
18	3.2	GET INKEY	TS 31.111 §5.2	R99	C267 AND C268		PD_Get_Inkey
19	3.3	GET INPUT	TS 31.111 §5.2	R99	C267 AND C268		PD_Get_Input
20	3.4	MORE TIME	TS 31.111 §5.2	R99	M		PD_More_Time
21	3.5	PLAY TONE	TS 31.111 §5.2 TS 11.14, 5	R99	C269		PD_Play_Tone
22	3.6	POLL INTERVAL	TS 31.111 §5.2 TS 11.14, 5	R99	M		PD_Poll_interval
23	3.7	POLLING OFF	TS 31.111 §5.2	R99	M		PD_Polling_Off
24	3.8	REFRESH	TS 31.111 §5.2	R99	M		PD_Refresh
25	4.1	SELECT ITEM	TS 31.111 §5.2	R99	C267 AND C268		PD_Select_Item
26	4.2	SEND SHORT MESSAGE	TS 31.111 §5.2	R99	M		PD_Send_SMS
27	4.3	SEND SS	TS 31.111 §5.2	R99	M		PD_Send_SS
28	4.4	SEND USSD	TS 31.111 §5.2	R99	M		PD_Send_USSD
29	4.5	SET UP CALL	TS 31.111 §5.2	R99	C267 AND C268 AND C270		PD_SetUp_Call

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
30	4.6	SET UP MENU	TS 31.111 §5.2	R99	C267 AND C268		PD_SetUp_Menu
31	4.7	PROVIDE LOCAL INFORMATION (LOCI & IMEI)	TS 31.111 §5.2	R99	M		PD_Provide_Local
32	4.8	PROVIDE LOCAL INFORMATION (NMR)	TS 31.111 §5.2	R99	M		PD_Provide_Local_NMR
33	5.1	SET UP EVENT LIST	TS 31.111 §5.2	R99	M		PD_Setup_Evt_List
34	5.2	Event: MT call	TS 31.111 §5.2	R99	C270		PD_MT_Call
35	5.3	Event: Call connected	TS 31.111 §5.2	R99	C270		PD_Call_Conn
36	5.4	Event: Call disconnected	TS 31.111 §5.2	R99	C270		PD_Call_Disc
37	5.5	Event: Location status	TS 31.111 §5.2	R99	M		PD_Loc_Status
38	5.6	Event: User activity	TS 31.111 §5.2	R99	C268		PD_User_Act
39	5.7	Event: Idle screen available	TS 31.111 §5.2	R99	C267		PD_Idle_Scr_Avail
40	5.8	Event: Card reader status	TS 31.111 §5.2	R99	C206		PD_Evt_Rdr_Status
41	6.1	Event: Language selection	TS 31.111 §5.2	R99	C271		PD_Lang_Select
42	6.2	Event: Browser Termination	TS 31.111 §5.2	R99	C212 AND C267 AND C268		PD_Browser_Term
43	6.3	Event: Data available	TS 31.111 §5.2	R99	C223		PD_Data_Avail
44	6.4	Event: Channel status	TS 31.111 §5.2	R99	C223		PD_Evt_Ch_Status
45	6.5	Event:Access Technology Change	TS 31.111 §5.2	Rel-4	M		PD_Evt_ATC
46	6.6	Event: Display Parameters Changed	TS 31.111 §5.2	Rel-4	C218 AND C267		PD_Disp_Resiz
47	6.7	Event: Local Connection	TS 31.111 §5.2	Rel-4	C224		PD_Evt_LC
48	6.8	Event: Network Search Mode Change	TS 31.111 §5.2	Rel-6	M		PD_Evt_NSMC
49	7.1	POWER ON CARD	TS 31.111 §5.2	R99	C206		PD_C_On
50	7.2	POWER OFF CARD	TS 31.111 §5.2	R99	C206		PD_C_Off
51	7.3	PERFORM CARD APDU	TS 31.111 §5.2	R99	C206		PD_C_APDU
52	7.4	GET READER STATUS (Card reader status)	TS 31.111 §5.2	R99	C206		PD_Get_Rdr_Status
53	7.5	GET READER STATUS (Card reader identifier)	TS 31.111 §5.2	R99	C208		PD_Get_Rdr_Id
54	7.6	RFU	TS 31.111 §5.2	R99	X		PD_RFU_54
55	7.7	RFU	TS 31.111 §5.2	R99	X		PD_RFU_55
56	7.8	RFU	TS 31.111 §5.2	R99	X		PD_RFU_56
57	8.1	TIMER MANAGEMENT (start, stop)	TS 31.111 §5.2	R99	M		PD_Timer_Mgt_Start_Stop
58	8.2	TIMER MANAGEMENT (get current value)	TS 31.111 §5.2	R99	M		PD_Timer_Val
59	8.3	PROVIDE LOCAL INFORMATION (date, time and time zone)	TS 31.111 §5.2	R99	M		PD_Provide_Local_D_Time
60	8.4	Bit=1 if Get Inkey	TS 31.111 §5.2	R99	C268		PD_Get_Inkey
61	8.5	SET UP IDLE MODE TEXT	TS 31.111 §5.2	R99	C267		PD_Stup_Id_Mod_Txt
62	8.6	RUN AT COMMAND (i.e. class "b" is supported)	TS 31.111 §5.2	R99	C209		PD_Run_AT
63	8.7	Bit=1 if Set UpCall	TS 31.111 §5.2	R99	C267 AND C268 AND C270		PD_SetUp_Call
64	8.8	Bit=1 if Call Control	TS 31.111 §5.2	R99	C270		PD_CC
65	9.1	Bit=1 if Display Text	TS 31.111 §5.2	R99	C267		PD_Display_Text
66	9.2	SEND DTMF command	TS 31.111 §5.2	R99	C270		PD_Send_DTMF

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
67	9.3	Bit = 1 if Provide Local Information (NMR) supported	TS 31.111 §5.2	R99	M		PD_Provide_Local
68	9.4	PROVIDE LOCAL INFORMATION (language)	TS 31.111 §5.2	R99	M		PD_Provide_Local_LS
69	9.5	PROVIDE LOCAL INFORMATION (Timing Advance)	TS 31.111 §5.2	R99	M		PD_Provide_Local_TA
70	9.6	LANGUAGE NOTIFICATION	TS 31.111 §5.2	R99	C271		PD_Lang_Notif
71	9.7	LAUNCH BROWSER	TS 31.111 §5.2	R99	C212 AND C267 AND C268		PD_Launch_Brws
72	9.8	PROVIDE LOCAL INFORMATION (Access Technology)	TS 31.111 §5.2	Rel-4	M		PD_Provide_Local_AT
73	10.1	Soft keys support for SELECT ITEM	TS 31.111 §5.2	R99	C213		PD_Softkey_Select_Item
74	10.2	Soft Keys support for SET UP MENU	TS 31.111 §5.2	R99	C213		PD_Softkey_SetUp_Menu
75	10.3	RFU	TS 31.111 §5.2	R99	X		PD_RFU_75
76	10.4	RFU	TS 31.111 §5.2	R99	X		PD_RFU_76
77	10.5	RFU	TS 31.111 §5.2	R99	X		PD_RFU_77
78	10.6	RFU	TS 31.111 §5.2	R99	X		PD_RFU_78
79	10.7	RFU	TS 31.111 §5.2	R99	X		PD_RFU_79
80	10.8	RFU	TS 31.111 §5.2	R99	X		PD_RFU_80
81	11.1	Maximum number of soft keys available ('FF' = RFU)	TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
82	11.2	Maximum number of soft keys available ('FF' = RFU)	TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
83	11.3	Maximum number of soft keys available ('FF' = RFU)	TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
84	11.4	Maximum number of soft keys available ('FF' = RFU)	TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
85	11.5	Maximum number of soft keys available ('FF' = RFU)	TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
86	11.6	Maximum number of soft keys available ('FF' = RFU)	TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
87	11.7	Maximum number of soft keys available ('FF' = RFU)	TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
88	11.8	Maximum number of soft keys available ('FF' = RFU)	TS 31.111 §5.2	R99	C214		PD_Max_SoftKey
89	12.1	OPEN CHANNEL	TS 31.111 §5.2	R99	C223		PD_Open_Ch
90	12.2	CLOSE CHANNEL	TS 31.111 §5.2	R99	C223		PD_Close_Ch
91	12.3	RECEIVE DATA	TS 31.111 §5.2	R99	C223		PD_Rx_Data
92	12.4	SEND DATA	TS 31.111 §5.2	R99	C223		PD_Send_Data
93	12.5	GET CHANNEL STATUS	TS 31.111 §5.2	R99	C223		PD_Get_Ch_Status
94	12.6	SERVICE SEARCH	TS 31.111 §5.2	Rel-4	C224		PD_Serv_Search
95	12.7	GET SERVICE INFORMATION	TS 31.111 §5.2	Rel-4	C224		PD_Get_Serv_Info
96	12.8	DECLARE SERVICE	TS 31.111 §5.2	Rel-4	C224		PD_Declare_Serv
97	13.1	CSD supported by ME	TS 31.111 §5.2	R99	C207		PD_CSD
98	13.2	GPRS supported by ME	TS 31.111 §5.2	R99	C222		PD_GPRS
99	13.3	Bluetooth supported by terminal	TS 31.111 §5.2	Rel-4	C225		PD_BT
100	13.4	IrDA Supported by terminal	TS 31.111 §5.2	Rel-4	C226		PD_IrDA
101	13.5	RS232 Supported by terminal	TS 31.111 §5.2	Rel-4	C227		PD_RS232
102	13.6	Number of channels supported by ME	TS 31.111 §5.2	R99	C257		PD_Nb_Channel
103	13.7	Number of channels supported by ME	TS 31.111 §5.2	R99	C257		PD_Nb_Channel

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
104	13.8	Number of channels supported by ME	TS 31.111 §5.2	R99	C257		PD_Nb_Channel
105	14.1	Number of characters supported down the ME	TS 31.111 §5.2	R99	C274		PD_Nb_Char
106	14.2	Number of characters supported down the ME	TS 31.111 §5.2	R99	C274		PD_Nb_Char
107	14.3	Number of characters supported down the ME	TS 31.111 §5.2	R99	C274		PD_Nb_Char
108	14.4	Number of characters supported down the ME	TS 31.111 §5.2	R99	C274		PD_Nb_Char
109	14.5	Number of characters supported down the ME	TS 31.111 §5.2	R99	C274		PD_Nb_Char
110	14.6	No display capability (i.e class "ND" is indicated)	TS 31.111 §5.2	Rel-8	C267		PD_Type_ND
111	14.7	No keypad available (i.e. class "NK" is indicated)	TS 31.111 §5.2	Rel-8	C268		PD_Type_NK
112	14.8	Screen Sizing Parameters	TS 31.111 §5.2	R99	C216		PD_Screen_Siz
113	15.1	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274		PD_Nb_Char_Disp
114	15.2	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274		PD_Nb_Char_Disp
115	15.3	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274		PD_Nb_Char_Disp
116	15.4	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274		PD_Nb_Char_Disp
117	15.5	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274		PD_Nb_Char_Disp
118	15.6	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274		PD_Nb_Char_Disp
119	15.7	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274		PD_Nb_Char_Disp
120	15.8	Variable size fonts Supported	TS 31.111 §5.2	R99	C274		PD_Var_Font
121	16.1	Display can be resized	TS 31.111 §5.2	R99	C218		PD_Disp_Resiz
122	16.2	Text Wrapping supported	TS 31.111 §5.2	R99	C273		PD_Txt_Wrap
123	16.3	Text Scrolling supported	TS 31.111 §5.2	R99	C273		PD_Txt_Scroll
124	16.4	Text attributes supported	TS 31.111 §5.2	Rel-5	C228		PD_Text_Attrib
125	16.5	RFU	TS 11.14, 5	R96	X		PD_RFU_125
126	16.6	Width reduction when in a menu	TS 31.111 §5.2	R99	C217		PD_Width_Reduc
127	16.7	Width reduction when in a menu	TS 31.111 §5.2	R99	C217		PD_Width_Reduc
128	16.8	Width reduction when in a menu	TS 31.111 §5.2	R99	C217		PD_Width_Reduc
129	17.1	TCP, UICC in client mode	TS 31.111 §5.2	R99	C220		PD_TCP
130	17.2	UDP, UICC in client mode	TS 31.111 §5.2	R99	C221		PD_UDP
131	17.3	TCP, UICC in server mode (i.e. class "k" supported)	TS 31.111 §5.2	Rel-7	C262		PD_TCP_UICC_ServerMode
132	17.4	TCP, Terminal in server mode (i.e. class "k" is supported)	TS 31.111 §5.2	Rel-7	C263		PD_TCP_Terminal_ServerMode
133	17.5	UDP, Terminal in server mode (i.e. class "k" is supported)	TS 31.111 §5.2	Rel-7	C264		PD_UDP_Terminal_ServerMode
134	17.6	RFU	TS 31.111 §5.2	R99	X		PD_RFU_134
135	17.7	RFU	TS 31.111 §5.2	R99	X		PD_RFU_135
136	17.8	HSDPA supported by ME	TS 31.111 §5.2	Rel-6	C258		PD_ HSDPA

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
137	18.1	DISPLAY TEXT (Variable time out)	TS 31.111 §5.2	Rel-4	C229		PD_Disp_Var_Timeout
138	18.2	GET INKEY (help is supported while waiting for immediate response or variable time out)	TS 31.111 §5.2	Rel-4	C231		PD_Get_Inkey_Help
139	18.3	USB supported by ME	TS 31.111 §5.2	Rel-4	C232		PD_USB
140	18.4	GET INKEY (Variable time out)	TS 31.111 §5.2	Rel-4	C229 AND C267 AND C268		PD_Get_Inkey_Var_Timeout
141	18.5	Reserved for 3GPP2: PROVIDE LOCAL INFORMATION (ESN)	TS 31.111 §5.2	R99	X		Reserved
142	18.6	CALL CONTROL on GPRS	TS 31.111 §5.2	Rel-5	C242		PD_CC_GPRS
143	18.7	PROVIDE LOCAL INFORMATION (IMEISV)	TS 31.111 §5.2	Rel-6	M		PD_Provide_Local_SV
144	18.8	PROVIDE LOCAL INFORMATION (search mode change)	TS 31.111 §5.2	Rel-6	M		PD_Provide_Local_SMC
145	19.1	Protocol Version	TS 31.111 §5.2	R99	X		Reserved
146	19.2	Protocol Version	TS 31.111 §5.2	R99	X		Reserved
147	19.3	Protocol Version	TS 31.111 §5.2	R99	X		Reserved
148	19.4	Protocol Version	TS 31.111 §5.2	R99	X		Reserved
149	19.5	RFU	TS 31.111 §5.2	R99	X		PD_RFU_149
150	19.6	RFU	TS 31.111 §5.2	R99	X		PD_RFU_150
151	19.7	RFU	TS 31.111 §5.2	R99	X		PD_RFU_151
152	19.8	RFU	TS 31.111 §5.2	R99	X		PD_RFU_152
153	20.1	Reserved by TIA/EIA/IS-820 [25]	TS 31.111 §5.2	R99	X		Reserved
154	20.2	Reserved by TIA/EIA/IS-820 [25]	TS 31.111 §5.2	R99	X		Reserved
155	20.3	Reserved by TIA/EIA/IS-820 [25]	TS 31.111 §5.2	R99	X		Reserved
156	20.4	Reserved by TIA/EIA/IS-820 [25]	TS 31.111 §5.2	R99	X		Reserved
157	20.5	Reserved by TIA/EIA/IS-820 [25]	TS 31.111 §5.2	R99	X		Reserved
158	20.6	Reserved by TIA/EIA/IS-820 [25]	TS 31.111 §5.2	R99	X		Reserved
159	20.7	Reserved by TIA/EIA/IS-820 [25]	TS 31.111 §5.2	R99	X		Reserved
160	20.8	Reserved by TIA/EIA/IS-820 [25]	TS 31.111 §5.2	R99	X		Reserved
161	21.1	WML browser supported	TS 31.111 §5.2	Rel-6	C233 AND C267		PD_WML
162	21.2	XHTML browser supported	TS 31.111 §5.2	Rel-6	C234 AND C267		PD_XHTML
163	21.3	HTML browser supported	TS 31.111 §5.2	Rel-6	C235 AND C267		PD_HTML
164	21.4	CHTML browser supported	TS 31.111 §5.2	Rel-6	C236 AND C267		PD_CHTML
165	21.5	RFU	TS 31.111 §5.2	R99	X		PD_RFU_165
166	21.6	RFU	TS 31.111 §5.2	R99	X		PD_RFU_166
167	21.7	RFU	TS 31.111 §5.2	R99	X		PD_RFU_167
168	21.8	RFU	TS 31.111 §5.2	R99	X		PD_RFU_168
169	22.1	Support of UTRAN PS with extended parameters	TS 31.111 §5.2	Rel-6	C259		PD_UTRAN_PS_Ext_Param

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
170	22.2	PROVIDE LOCAL INFORMATION (Battery state) if class 'g' supported	TS 31.111 §5.2	Rel-6	C239		PD_Provide_Local_Batt
171	22.3	PLAY TONE (Melody tones & themed tones supported)	TS 31.111 §5.2	Rel-6	C241		PD_M_T_Tones
172	22.4	Multi-media in SET UP CALL supported (if class 'h' supported)	TS 31.111 §5.2	Rel-6	C240		PD_Xmedia_Call
173	22.5	Toolkit-initiated GBA	TS 31.111 §5.2	Rel-6	C266		PD_Toolkit_GBA
174	22.6	RETRIEVE MULTIMEDIA MESSAGE, (if class "j" is supported)	TS 31.111 §5.2	Rel-6	C238		PD_Retrieve_MMS
175	22.7	SUBMIT MULTIMEDIA MESSAGE, (if class "j" is supported)	TS 31.111 §5.2	Rel-6	C238		PD_Submit_MMS
176	22.8	DISPLAY MULTIMEDIA MESSAGE, (if class "j" is supported)	TS 31.111 §5.2	Rel-6	C238 AND C267		PD_Display_MMS
177	23.1	SET FRAMES supported (if class 'i' supported)	TS 31.111 §5.2	Rel-6	C237		PD_Set_Frames
178	23.2	GET FRAMES STATUS supported (if class 'i' supported)	TS 31.111 §5.2	Rel-6	C237		PD_Get_Frames_Stat
179	23.3	MMS notification download (if class "j" is supported)	TS 31.111 §5.2	Rel-6	C238		PD_MMS_Notification
180	23.4	Alpha Identifier in REFRESH command supported by terminal	TS 31.111 §5.2	Rel-7	C267		PD_Refresh_AlphaIdentifier
181	23.5	Geographical Location Reporting (if class "n" is supported)	TS 31.111 §5.2	Rel-8	C265		PD_Geo_Loaction_Reporting
182	23.6	Reserved for 3GPP2: PROVIDE LOCAL INFORMATION (MEID)	TS 31.111 §5.2	Rel-6	X		Reserved
183	23.7	PROVIDE LOCAL INFORMATION (UTRAN NMR)	TS 31.111 §5.2	Rel-6	M		PD_Provide_Local_NMR
184	23.8	USSD Data Download and application mode	TS 31.111 §5.2	Rel-6	C272		PD_USSD_DD
185	24.1	Maximum number of frames supported (if class 'i' supported)	TS 31.111 §5.2	Rel-6	C256		PD_Max_Frames
186	24.2	Maximum number of frames supported (if class 'i' supported)	TS 31.111 §5.2	Rel-6	C256		PD_Max_Frames
187	24.3	Maximum number of frames supported (if class 'i' supported)	TS 31.111 §5.2	Rel-6	C256		PD_Max_Frames
188	24.4	Maximum number of frames supported (if class 'i' supported)	TS 31.111 §5.2	Rel-6	C256		PD_Max_Frames
189	24.5	RFU	TS 31.111 §5.2	R99	X		PD_RFU_189
190	24.6	RFU	TS 31.111 §5.2	R99	X		PD_RFU_190
191	24.7	RFU	TS 31.111 §5.2	R99	X		PD_RFU_191
192	24.8	RFU	TS 31.111 §5.2	R99	X		PD_RFU_192
193	25.1	Event: browsing status	TS 31.111 §5.2	Rel-6	C267 AND C268		PD_Browser_Stat
194	25.2	Event: MMS Transfer status (if class "j" is supported)	TS 31.111 §5.2	Rel-6	C238		PD_MMS

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
195	25.3	Event Frame parameters changed (if class 'i' supported)	TS 31.111 §5.2	Rel-6	C237		PD_Event_Frames
196	25.4	Event: I-WLAN Access status (if class "e" is supported)	TS 31.111 §5.2	Rel-7	C260		PD_RFU_Event_I-WLAN
197	25.5	Event: Network Rejection	TS 31.111 §5.2	Rel-8	M		PD_Event_NW_Rejection
198	25.6	Reserved by ETSI TS 102 230 [16]	TS 31.111 §5.2	Rel-7	O		PD_Reserved
199	25.7	RFU	TS 31.111 §5.2	R99	X		PD_RFU_199
200	25.8	RFU	TS 31.111 §5.2	R99	X		PD_RFU_200
201	26.1	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_201
202	26.2	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_202
203	26.3	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_203
204	26.4	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_204
205	26.5	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_205
206	26.6	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_206
207	26.7	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_207
208	26.8	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_208
209	27.1	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_209
210	27.2	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_210
211	27.3	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_211
212	27.4	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_212
213	27.5	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_213
214	27.6	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_214
215	27.7	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_215
216	27.8	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_216
217	28.1	Alignment left supported	TS 31.111 §5.2	Rel-5	C243		PD_Text_Attrib_Left
218	28.2	Alignment center supported	TS 31.111 §5.2	Rel-5	C244		PD_Text_Attrib_Center
219	28.3	Alignment right supported	TS 31.111 §5.2	Rel-5	C245		PD_Text_Attrib_Right
220	28.4	Font size normal supported	TS 31.111 §5.2	Rel-5	C246		PD_Text_Attrib_Normal
221	28.5	Font size large supported	TS 31.111 §5.2	Rel-5	C247		PD_Text_Attrib_Large
222	28.6	Font size small supported	TS 31.111 §5.2	Rel-5	C248		PD_Text_Attrib_Small
223	28.7	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_223
224	28.8	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_224
225	29.1	Style normal supported	TS 31.111 §5.2	Rel-5	C249		PD_Text_Attrib_Styl_Norm
226	29.2	Style bold supported	TS 31.111 §5.2	Rel-5	C250		PD_Text_Attrib_Styl_Bold
227	29.3	Style italic supported	TS 31.111 §5.2	Rel-5	C251		PD_Text_Attrib_Styl_Italic
228	29.4	Style underlined supported	TS 31.111 §5.2	Rel-5	C252		PD_Text_Attrib_Styl_Underl
229	29.5	Style strikethrough supported	TS 31.111 §5.2	Rel-5	C253		PD_Text_Attrib_Styl_Strik
230	29.6	Style text foreground colour supported	TS 31.111 §5.2	Rel-5	C254		PD_Text_Attrib_Styl_Text_Fore
231	29.7	Style text background colour supported	TS 31.111 §5.2	Rel-5	C255		PD_Text_Attrib_Styl_Text_Back
232	29.8	RFU	TS 31.111 §5.2	Rel-6	X		PD_RFU_224
233	30.1	I-WLAN bearer support (if class "e" is supported)	TS 31.111 §5.2	Rel-7	C260		PD_I-WLAN
234	30.2	Proactive UICC: PROVIDE LOCAL INFORMATION (WSID of the current I-WLAN connection)	TS 31.111 §5.2	Rel-7	C260		PD_Provide_Local_WSID_WLAN

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
235	30.3	TERMINAL APPLICATIONS (i.e. class "k" is supported)	TS 31.111 §5.2	Rel-7	C261		PD_Terminal_Applications
236	30.4	"Steering of Roaming" REFRESH support	TS 31.111 §5.2	Rel-7	M		PD_Steering_Of_Roaming
237	30.5	RFU	TS 31.111 §5.2	Rel-7	X		PD_RFU_237
238	30.6	Proactive UICC: Geographical Location Request (if class "n" is supported)	TS 31.111 §5.2	Rel-8	C265		PD_Geo_Loaction_Request
239	30.7	Reserved by ETSI TS 102 230 [16]	TS 31.111 §5.2	Rel-8	O		PD_Reserved
240	30.8	"Steering of Roaming for I-WLAN" REFRESH support	TS 31.111 §5.2	Rel-8	C260		PD_Steering_Of_Roaming _I-WLAN

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 AND A.1/85) THEN M for at least one of the bits 1 - 2 of byte 10	-- O_Softkey AND O_No_Type_NK
C214	IF C213 THEN M for at least one, but not for all of the bits 1 - 8 of byte 11	-- O_Softkey AND O_No_Type_NK (parameters)
		-- Void
C215	Void	-- O_Scr_Siz AND O_No_Type_ND
C216	IF (A.1/13 AND A.1/84) THEN M ELSE O.1	-- O_Scr_Siz AND O_No_Type_ND (parameters)
C217	IF C216 THEN bit values "0" / "1" allowed ELSE O.1	-- O_Scr_Resiz AND O_No_Type_ND
		-- O_Scr_Resiz AND O_No_Type_ND
C218	IF (A.1/14 AND A.1/84) THEN M ELSE O.1	(parameters)
C219	IF (A.1/14 AND A.1/84) THEN bit values "0" / "1" allowed ELSE O.1	
		-- O_TCP
	IF A.1/18 THEN M	-- O_UDP
C220	IF A.1/17 THEN M	-- O_BIP_GPRS
C221	IF A.1/21 THEN M	-- O_BIP_CSD OR O_BIP_GPRS OR
C222	IF (C207 OR C222 OR C224) THEN M	(O_BIP_Local AND (BIP_BT OR BIP_IrDA OR
C223		BIP_RS232 OR BIP_USB))
		-- O_BIP_Local AND (BIP_BT OR BIP_IrDA OR
		BIP_RS232 OR BIP_USB))
	IF (A1.26 AND (A.1/27 OR A.1/28 OR	-- O_BIP_Local AND O_BIP_BT
C224	A.1/29 OR A.1/30)) THEN M	-- O_BIP_Local AND O_BIP_IrDA
		-- O_BIP_Local AND O_BIP_RS232
	IF (A.1/26 AND A1.27) THEN M	-- (O_TAT_AL OR O_TAT_AC OR O_TAT_AR
C225	IF (A.1/26 AND A1.28) THEN M	OR O_TAT_FSN OR O_TAT_FSL OR
C226	IF (A.1/26 AND A1.29) THEN M	O_TAT_FSS OR O_TAT_SN OR O_TAT_SB
C227	IF ((A1./50 OR A.1/51 OR A.1/52 OR A.1/53 OR A.1/54 OR A.1/55	OR O_TAT_SI OR O_TAT_SU OR O_TAT_SS
C228	OR A.1/56 OR A.1/57 OR A.1/58 OR A.1/59 OR A.1/60 OR A.1/61	OR O_TAT_STFC OR O_TAT_STFB) AND
	OR A.1/62) AND A.1/84) THEN M	O_No_Type_ND
		-- O_Duration AND O_No_Type_ND
		-- O_Imm_Resp AND O_No_Type_NK
		-- O_Help AND ((O_Duration AND
	IF (A.1/24 AND A.1/84) THEN M	O_No_Type_ND) OR
	IF (A.1/23 AND A.1/85) THEN M	(O_Imm_Resp AND O_No_Type_NK))
C229		-- O_BIP_Local AND O_USB
C230	IF (C229 OR C230) AND A1.5 THEN M	-- O_WML
		-- O_XHTML
C231		-- O_HTML
		-- O_CHTML
	IF (A.1/26 AND A.1/30) THEN M	-- O_Frames AND O_No_Type_ND
	IF A.1/31 THEN M	-- O_MMS
C232	IF A.1/32 THEN M	-- O_Batt
C233	IF A.1/33 THEN M	-- O_Xmedia Call AND O_No_Type_ND AND
C234	IF A.1/34 THEN M	O_No_Type_NK AND O_No_Type_NS
C235	IF (A.1/37 AND A.1/84) THEN M ELSE O.1	-- O_M_T_Tones AND O_No_Type_NA
C236	IF A.1/38 THEN M	-- O_CC_GPRS AND O_No_Type_ND
C237	IF A.1/35 THEN M	-- O_TAT_AL AND O_No_Type_ND
C238	IF (A.1/36 AND A.1/84 AND A.1/85 AND A.1/87) THEN M	-- O_TAT_AC AND O_No_Type_ND
C239		-- O_TAT_AR AND O_No_Type_ND
C240		-- O_TAT_FSN AND O_No_Type_ND
	IF (A.1/82 AND A.1/86) THEN M ELSE O.1	-- O_TAT_FSL AND O_No_Type_ND
		-- O_TAT_FSS AND O_No_Type_ND
	IF (A.1/16 AND A.1/84) THEN M ELSE O.1	-- O_TAT_SN AND O_No_Type_ND
C241		-- O_TAT_SB AND O_No_Type_ND
	IF (A.1/50 AND A.1/84) THEN M ELSE O.1	-- O_TAT_SI AND O_No_Type_ND
C242	IF (A.1/51 AND A.1/84) THEN M ELSE O.1	-- O_TAT_SU AND O_No_Type_ND
	IF (A.1/52 AND A.1/84) THEN M ELSE O.1	-- O_TAT_SS AND O_No_Type_ND
C243	IF (A.1/53 AND A.1/84) THEN M ELSE O.1	-- O_TAT_STFC AND O_No_Type_ND
C244	IF (A.1/54 AND A.1/84) THEN M ELSE O.1	-- OR O_TAT_STFB AND O_No_Type_ND
C245	IF (A.1/55 AND A.1/84) THEN M ELSE O.1	-- O_Frames AND O_No_Type_ND
C246	IF (A.1/56 AND A.1/84) THEN M ELSE O.1	
C247	IF (A.1/57 AND A.1/84) THEN M ELSE O.1	-- O_BIP_CSD OR O_BIP_GPRS OR
C248	IF (A.1/58 AND A.1/84) THEN M ELSE O.1	(O_BIP_Local AND (BIP_BT OR BIP_IrDA OR
C249	IF (A.1/59 AND A.1/84) THEN M ELSE O.1	BIP_RS232 OR BIP_USB))
C250	IF (A.1/60 AND A.1/84) THEN M ELSE O.1	-- O_HSDPA
C251	IF (A.1/61 AND A.1/84) THEN M ELSE O.1	-- O_UTRAN_PS_Ext_Param
C252		-- O_I-WLAN
C253	IF (A.1/62 AND A.1/84) THEN M ELSE O.1	-- O_Terminal_Applications
C254		-- O_TCP_UICC_ServerMode
	IF C237 THEN M for at least one of the bits 1 - 4 of byte 24	-- O_TCP_Terminal_ServerMode
C255	IF (C207 OR C222 OR C224) THEN M for at least one of the bits 6 -	-- O_UDP_Terminal_ServerMode
	8 of byte 13	-- O_Geo_Location_Discovery
C256		-- O_Toolkit_GBA
		-- O_No_Type_ND
C257	IF A.1/66 THEN M	-- O_No_Type_NK
	IF A.1/67 THEN M	-- O_No_Type_NA
	IF A.1/70 THEN M	-- O_No_Type_NS
	IF A.1/71 THEN M	-- O_No_Type_NL
C258	IF A.1/72 THEN M	-- O_USSD_Data_DL
C259	IF A.1/72 THEN M	-- O_No_Type_ND
C260	IF A.1/73 THEN M	-- O_No_Type_ND
C261	IF A.1/81 THEN M	
C262	IF A.1/83 THEN M	

C263	IF A.1/84 THEN M ELSE O.1
C264	IF A.1/85 THEN M ELSE O.1
C265	IF A.1/86 THEN M ELSE O.1IF A.1/87 THEN M ELSE O.1
C266	IF A.1/88 THEN M ELSE O.1
C267	IF A.1/89 THEN M ELSE O.1
C268	IF A.1/84 THEN O ELSE O.1
C269	IF A.1/84 THEN bit values "0" / "1" allowed ELSE O.1
C270	
C271	Allowed: Bit value ="0" or bit not present
C272	
C273	
C274	
O.1	

Annex C (informative): Change history

CP-doc	CR	REV	Meeting	SUBJECT	CAT	NEW_VERS
TP-050016	-	-	2.0.0	Approved TP-27, March 2005		6.0.0
CP-050144	0001	-	CT-28	Correction of coding in MT Call Event	F	6.1.0
CP-050144	0002	-	CT-28	Correction of applicability table	F	6.1.0
CP-050144	0003	-	CT-28	Essential Corrections	F	6.1.0
CP-050144	0004	-	CT-28	Correction of coding in MT Call Event	F	6.1.0
CP-050144	0005	-	CT-28	Removal of GET RESPONSE references	F	6.1.0
CP-050447	0006	-	CT-29	Rel-6: Correction of release dependent EF values	F	6.2.0
CP-050447	0007	-	CT-29	Correction of applicability and terminal profile support tables	F	6.2.0
CP-050447	0008	-	CT-29	Correction of EF_BDN coding	F	6.2.0
CP-050447	0009	-	CT-29	Incorrect Dialling Number string in clause 27.22.4.13.1 SEQ 1.9 for PCS 1900	F	6.2.0
CP-050447	0010	-	CT-29	Essential corrections in display icons Setup Menu and Select Item	f	6.2.0
CP-050447	0011	-	CT-29	Incorrect Ti Flag value for SET UP 1.4.1 in clause 27.22.4.16.1	F	6.2.0
CP-050447	0012	-	CT-29	Correction of TP-MR (TP Message Reference) of the SMS SUBMIT TPDU submitted to the USS (Network)	F	6.2.0
CP-050447	0013	-	CT-29	Corrections in the Logical description and BER encoding in clause 27.22.6.2 and 27.22.4.11	F	6.2.0
CP-050447	0014	-	CT-29	Incorrect DCS in SMS-CB data download tests	F	6.2.0
CP-050447	0015	-	CT-29	Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY USIM	F	6.2.0
CP-050447	0016	-	CT-29	Introduction of BDN tests for terminals not supporting BDN	B	6.2.0
CP-050447	0017	-	CT-29	Essential Corrections	F	6.2.0
CP-050447	0018	-	CT-29	Incorrect SMS-PP 1.4.1 TPDU in clause 27.22.4.22.1	F	6.2.0
CP-050447	0019	-	CT-29	Missing interactions in Bearer Independent Protocol test cases	F	6.2.0
CP-050447	0020	-	CT-29	Correction of Refresh tests	F	6.2.0
CP-050447	0022	-	CT-29	Applicability of TC 27.22.4.7.1 and TCs related to FDN and BDN	F	6.2.0
CP-050447	0023	-	CT-29	Essential correction to Terminal Profile table E.1	F	6.2.0
CP-050447	0024	-	CT-29	Correction of CB message identifier	F	6.2.0
CP-050447	0025	-	CT-29	Rel-6: Addition of new UCS2 Tests	B	6.2.0
CP-050447	0027	-	CT-29	Incorrect Coding of SMS-PP (Data download) Message in clause 27.22.4.7.1 and 27.22.5.1	F	6.2.0
-	-	-	-	2005-10: Editorial corrections due to the CRs approved at CP-29	-	6.2.1
CP-050495	0028	-	CT-30	Correction of Send SS (UCS2) tests	F	6.3.0
CP-050495	0029	-	CT-30	Essential Corrections in clause 27.22.4.11	F	6.3.0
CP-050495	0030	-	CT-30	Corrections to Select Item (icons support)	F	6.3.0
CP-050495	0031	-	CT-30	27.22.7.4.1 Location Status Event (normal)	F	6.3.0
CP-050495	0032	-	CT-30	Essential Corrections of Set Up Menu test	F	6.3.0
CP-050495	0033	-	CT-30	Correction of applicability table and related addition of missing test sequences	F	6.3.0
CP-050495	0034	-	CT-30	Correction in SMS-PP 1.4.1 TPDU of clause 27.22.4.22.1	F	6.3.0
CP-050495	0035	-	CT-30	Essential Corrections of SMS-PP download message in Refresh test case	F	6.3.0
CP-050495	0036	-	CT-30	Essential Correction in MO SHORT MESSAGE CONTROL BY USIM Deletion of sequence 1.9	F	6.3.0
CP-050495	0037	-	CT-30	Deletion of SEQ 1.3 in clause 27.22.4.13.1	F	6.3.0
CP-060013	0041	-	CT-31	Deletion of Send Data test sequence	F	6.4.0
CP-060013	0042	-	CT-31	Essential correction of Provide Local Information (IMEI) test	F	6.4.0
CP-060013	0044	-	CT-31	Essential Correction in SEQ 1.8 of clause 27.22.8	F	6.4.0
CP-060013	0045	-	CT-31	Essential correction on 27.22.7.3.1 Call Disconnected Event	F	6.4.0
CP-060013	0050	-	CT-31	Essential correction of Channel Data length in clause 27.22.4.30	F	6.4.0
CP-060014	0048	-	CT-31	Essential Corrections in clause 27.22.4.11	F	6.4.0
CP-060014	0052	-	CT-31	Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY SIM	F	6.4.0
CP-060014	0049	-	CT-31	Essential correction in SEQ 1.4 of clause 27.22.4.11.1 SEND SS (normal)	F	6.4.0
CP-060014	0047	-	CT-31	Essential corrections of Run AT Command tests	F	6.4.0
CP-060014	0053	-	CT-31	Essential corrections to SET UP CALL test sequences	F	6.4.0
CP-060015	0055	-	CT-31	Essential Correction in TERMINAL RESPONSE coding of clause 27.22.4.31	F	6.4.0
CP-060015	0056	-	CT-31	Essential corrections to Timer Expiration tests	F	6.4.0
CP-060015	0054	-	CT-31	BER-TLV suppressions	F	6.4.0
CP-060157	0059	-	CT-31	Add SMS PP Data Download RP-ERROR Test Case	B	6.4.0
CP-060022	0043	-	CT-31	Essential Correction in SEQ 1.7 of clause 27.22.4.13.1	F	6.4.0
CP-060022	0046	-	CT-31	Essential correction of Refresh test	F	6.4.0
CP-060022	0051	-	CT-31	Essential correction of Channel Data length in Result TLV of clause 27.22.4.30	F	6.4.0
CP-060022	0060	-	CT-31	CR 31.124 Rel-6: Insertion of missing REFRESH (IMSI changing	F	6.4.0

CP-doc	CR	REV	Meeting	SUBJECT	CAT	NEW_VERS
				procedure) test cases		
CP-060022	0057	-	CT-31	Essential corrections of references	F	6.4.0
CP-060241	0061	-	CT-32	Proposal to the TS 31.124 Split by referencing the relevant USAT Test procedures to TS 102 384		6.5.0
CP-060241	0062	-	CT-32	Essential corrections on test cases 27.22.6.3 and 27.22.6.4 using record 2 in EF FDN		6.5.0
CP-060241	0063	-	CT-32	Essential corrections on TC 27.22.6.4 sequence 4.1		6.5.0
CP-060241	0064	-	CT-32	Essential corrections on SEND SHORT MESSAGE test cases		6.5.0
CP-060241	0065	-	CT-32	Essential correction of text attributes tests		6.5.0
CP-060241	0066	-	CT-32	Definition of appropriate QoS in BIP test cases related to GPRS for 3G		6.5.0
CP-060241	0071	-	CT-32	Essential correction of Refresh test in 27.22.7.4.2, seq. 2.4		6.5.0
CP-060241	0074	-	CT-32	Essential corrections of RUN AT Command tests		6.5.0
CP-060241	0067	-	CT-32	Essential correction of tables B.1 and E.1		6.5.0
CP-060242	0068	-	CT-32	Essential Correction in REGISTER 1.2B message coding of clause 27.22.4.11.1 SEND SS (normal)	F	6.5.0
CP-060242	0069	-	CT-32	Essential correction of 27.22.4.13.1 SET UP CALL, seq 1.4	F	6.5.0
CP-060242	0070	-	CT-32	Essential correction of second card reader test applicability	F	6.5.0
CP-060242	0072	-	CT-32	Correction of TON/NPI coding for Call Control Test case	F	6.5.0
CP-060242	0073	-	CT-32	Essential corrections on 27.22.4.11.1 sequence. 1.2	F	6.5.0
CP-060242	0075	-	CT-32	Essential correction of BIP tests	F	6.5.0
CP-060389	0082	1	CT-33	Wrong reference inside test requirement of TC 27.22.7.2.2	F	6.6.0
CP-060389	0087	1	CT-33	Essential corrections of applicability table	F	6.6.0
CP-060389	0088	1	CT-33	Essential correction of IMEISV coding for Provide Local Information	F	6.6.0
CP-060389	0089	1	CT-33	Essential corrections of text attribute tests for Send USSD and Close channel	F	6.6.0
CP-060389	0090	1	CT-33	Proposal to the TS 31.124 Split by referencing the relevant USAT Test procedures to TS 102 384	F	6.6.0
CP-060389	0091	1	CT-33	Correction to the UCS2 coding in Setup Call test	F	6.6.0
CP-060389	0092	1	CT-33	Essential correction of RUN AT Command for text attribute tests	F	6.6.0
CP-060389	0095	1	CT-33	Correction of RECEIVE DATA tests	F	6.6.0
CP-060389	0096	1	CT-33	Correction of terminology for USIM Service Table	F	6.6.0
CP-060389	0097	1	CT-33	Correction of 2^{nd} alpha identifier usages in SET UP CALL tests	F	6.6.0
CP-060389	0098	1	CT-33	Correction of various typographical errors	F	6.6.0
CP-060389	0101	1	CT-33	Essential corrections to OPEN CHANNEL text attribute test sequences	F	6.6.0
CP-060389	0078	1	CT-33	Correction of "Precedence class" values in Bearer Independent Protocol test cases	F	6.6.0
CP-060389	0076	1	CT-33	Essential corrections on PROVIDE LOCAL INFORMATION test sequences	F	6.6.0
CP-060389	0080	2	CT-33	Essential corrections on test sequences using the TLV data object Location Information	F	6.6.0
CP-060389	0100	2	CT-33	Essential corrections to SET UP CALL (UCS2 Display) test sequences	F	6.6.0
CP-060389	0081	3	CT-33	Essential corrections to REFRESH(normal) test sequence	F	6.6.0
CP-060389	0102	1	CT-33	Essential corrections to SEND SS display tests concerning longForwardedToNumber	F	6.6.0
CP-060475	0086	1	CT-33	Essential corrections of MMI entries in table E.1	F	6.6.0
CP-060475	0077	2	CT-33	Corrections to SET UP CALL test case 27.22.4.13.1	F	6.6.0
CP-060475	0099	1	CT-33	Essential corrections to SEND SS concerning longForwardedToNumber	F	6.6.0
CP-060475	0094	2	CT-33	Corrections to MO SHORT MESSAGE CONTROL BY USIM tests	F	6.6.0
CP-060517	0084	1	CT-33	Essential corrections Set Up Call, seq. 1.9	F	6.6.0
CP-060540	0103	-	CT-34	Correction of APN Coding in Open Channel test case	F	6.7.0
CP-060540	0085	2	CT-34	Essential corrections of BIP entries in table E.1	F	6.7.0
CP-060540	0110	2	CT-34	Essential correction of Result TLV handling	F	6.7.0
CP-060540	0111	-	CT-34	Essential correction of expected sequence in OPEN CHANNEL test case	F	6.7.0
CP-060727	0105	-	CT-34	Some of the Applicability table content is missing when printed or in Print Layout mode	F	6.7.0
CP-060727	0106	1	CT-34	Correction to SET UP CALL	F	6.7.0
CP-060727	0107	-	CT-34	Correction to SEND SS	F	6.7.0
CP-060727	0058	1	CT-34	Addition of REFRESH USIM Application Reset	B	6.7.0
CP-060727	0108	-	CT-34	Essential corrections on SEND SS (UCS2 display) test cases	F	6.7.0
CP-060727	0109	-	CT-34	Essential corrections on REFRESH TC 27.22.4.7.1	F	6.7.0
CP-060727	0104	1	CT-34	Corrections in the interpretation of Katakana Character	F	6.7.0
CP-070063	0115	-	CT-35	Essential correction of 27.22.5.2	F	6.8.0
CP-070063	0113	1	CT-35	Essential correction of Terminal Profile Support table	F	6.8.0
CP-070063	0112	1	CT-35	Essential correction of 27.22.4.13.1 Expected Sequence 1.7	F	6.8.0
CP-070065	0116	-	CT-35	Essential correction of 27.22.4.7, seq. 1.7	F	6.8.0
CP-070065	0119	-	CT-35	Essential correction of TC 27.22.7.4.1	F	6.8.0
CP-070065	0120	-	CT-35	CR implementation error correction for 27.22.6.2 SEQ 2.2	F	6.8.0
CP-070065	0121	-	CT-35	CR implementation error correction for 27.22.4.11.1 SEQ 1.4A	F	6.8.0
CP-070065	0117	1	CT-35	Essential clarification of Network Simulator selection	F	6.8.0
CP-070065	0122	1	CT-35	Essential correction of 27.22.4.7.2 SEQ 2.2	F	6.8.0
CP-070065	0124	2	CT-35	Addition of new expected sequence to the SMS-PP Data Download test case	C	6.8.0

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CP-070065	0125	2	CT-35	Addition of a new expected sequence to the SMS-CB Data Download test case	F	6.8.0
CP-070297	0127	2	CT-36	Essential correction of test case applicability	F	6.9.0
CP-070297	0128	-	CT-36	Correction of 27.22.4.2 applicability	F	6.9.0
CP-070297	0129	1	CT-36	Essential correction of test case applicability for 27.22.6.1	A	6.9.0
CP-070297	0130	1	CT-36	Essential correction on 27.22.8	A	6.9.0
CP-070297	0131	-	CT-36	Essential correction on 27.22.5.1	F	6.9.0
CP-070297	0132	-	CT-36	Essential correction on 27.22.4.11.1 sequence. 1.4 B	F	6.9.0
CP-070297	0133	-	CT-36	Correction of reference to ISO/IEC 7816-3	A	6.9.0
-	-	-	2007-06	Update to Rel-7 version (MCC)	-	7.0.0
CP-070610	0136	1	CT-37	Essential Correction to 27.22.6.2	F	7.1.0
CP-070619	0137	-	CT-37	Essential correction of variable timeout test case applicability	F	7.1.0
CP-070610	0138	-	CT-37	Essential correction to 27.22.4.13.1, seq. 1.9	F	7.1.0
CP-070619	0139	-	CT-37	Essential Correction to 27.22.6.1, Seq. 1.1	F	7.1.0
CP-070619	0140	-	CT-37	Essential correction of references	F	7.1.0
CP-070619	0141	1	CT-37	Essential correction of 27.22.4.13.1, sequence 1.7	F	7.1.0
CP-070619	0142	1	CT-37	Test Cases dependant on Radio Access Clarification	F	7.1.0
CP-070619	0143	-	CT-37	Essential correction of 27.22.4.7.1, sequence 1.6	F	7.1.0
CP-070843	0145	1	CT-38	Essential correction of 27.22.8, sequence 1.3 in order to remove verification of the Alpha Identifier	A	7.2.0
CP-070843	0154	1	CT-38	Essential correction of 27.22.4.7.1, sequence 1.6 caring of the missing requirements in TS 31.111	A	7.2.0
CP-070843	0146	1	CT-38	Essential correction of 27.22.4.26.2.4.2, seq. 2.2 in order to remove the possibility of retrieving a deleted previously visited URL	A	7.2.0
CP-070843	0155	-	CT-38	Correction to add optional support of Call Hold Supplementary Service	A	7.2.0
CP-070847	0147	-	CT-38	Essential correction terminal profile indication for Local Connection Event	F	7.2.0
CP-070847	0149	-	CT-38	Essential correction on test case 27.22.4.5.1	F	7.2.0
CP-070847	0150	-	CT-38	Definition of test sequence 1.7 in test case 27.22.4.15	F	7.2.0
CP-070847	0151	-	CT-38	Definition of test sequence 1.12 and 1.13 in test case 27.22.4.15	F	7.2.0
CP-070847	0152	-	CT-38	Essential correction on test case 27.22.4.28.2.1 correcting wrong implementation of CR 0078 rev1 in C6-060547	F	7.2.0
CP-070847	0148	1	CT-38	Introduction of Rel-7 test case applicability	F	7.2.0
CP-080172	0156	-	CT-39	Essential correction to 27.22.4.15	F	7.3.0
CP-080172	0157	-	CT-39	Essential correction of 27.22.8, seq. 1.3	F	7.3.0
CP-080172	0158	1	CT-39	Essential correction regarding terminal capabilities	F	7.3.0
CP-080172	0159	-	CT-39	Essential correction to network dependency of several tests	F	7.3.0
CP-080388	0160	1	CT-40	Essential correction of icon test case applicability	F	7.4.0
CP-080388	0161	2	CT-40	Essential correction to 27.22.6.4	F	7.4.0
CP-080388	0163	3	CT-40	Essential correction of test case applicability of 27.22.6.2 and 27.22.4.11	F	7.4.0
CP-080588	0164	-	CT-41	Essential correction of TC 27.22.4.12.1 Seq. 1.6	F	7.5.0
CP-080588	0165	-	CT-41	Essential correction of test case applicability	F	7.5.0
CP-080588	0166	-	CT-41	Essential correction of TC 27.22.7.8.1	F	7.5.0
CP-080906	0168	-	CT-42	Essential correction of TC 27.22.6.5 seq. 5.1 applicability	F	7.6.0
CP-080906	0169	-	CT-42	Essential correction of bearer parameters in browser tests	F	7.6.0
CP-080948	0170	3	CT-42	Pre-conditions for Launch browser	A	7.6.0
CP-080948	0171	-	CT-42	Essential correction of 27.22.4.26.2 Seq. 2.2	A	7.6.0
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CP-080194	0173	1	CT-43	Inclusion of Rel-8 test case applicability and Rel-8 feature indication in the terminal profile content	F	8.1.0
CP-080194	0174		CT-43	Essential correction of tables B.1 and E.1	F	8.1.0
CP-080194	0176	1	CT-43	Essential correction to BIP tests - usage of ME's default channel identifier	A	8.1.0
CP-090459	0175	3	CT-44	Introduction of steering of roaming test cases	B	8.2.0
CP-090460	0177	1	CT-44	Test case and test case applicability changes for terminals with reduced USAT capabilities	F	8.2.0

History

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