

**Digital cellular telecommunications system (Phase 2+);  
Mobile Station (MS) conformance specification;  
Part 4: Subscriber Identity Module (SIM)  
application toolkit conformance test specification  
(3GPP TS 51.010-4 version 4.18.0 Release 4)**



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## Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> 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:

Version x.y.z

where:

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

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## 1 Scope

The present document describes the technical characteristics and methods of test for testing the SIM Application Toolkit implemented in Mobile Stations (MS) for the Pan European digital cellular communications system and Personal Communication Systems (PCS) operating in the 450 MHz, 480 MHz, 700 MHz, 750 MHz, 850 MHz, 900 MHz, 1 800 MHz and 1 900 MHz frequency band (GSM 400, GSM 700, GSM 750, GSM 850, GSM 900, DCS 1 800 and PCS 1 900) within the European 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 ETS 300 406 [20].

The present document is valid for MS implemented according to GSM Phase2+ R96, or R97, or R98, or R99.

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 GSM-series of technical specifications. The present document neither replaces any of the other GSM technical specifications or GSM related ETSs or ENs, nor is it created to provide full understanding of (or parts of) the GSM 400, GSM 700, GSM 850, GSM 900, DCS1800 and PCS1900 systems . The present document lists the requirements, and provides the methods of test for testing the SIM Application Toolkit implemented in a MS for conformance to the GSM standard.

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

If there is a difference between this present conformance document, and any other GSM technical specification or GSM related ETS or EN, or 3GPP TS, then the other GSM technical specification or GSM related ETS or EN or 3GPP TS shall prevail.

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## 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*.
  - For a GSM Phase 2+ Release 1999 MS, references to GSM documents are to version 8.x.y (for 01.-series to 12.-series) or (3.x.y for 21.-series to 35.-series), when available.
  - For a GSM Phase 2+ Release 1998 MS, references to GSM documents are to version 7.x.y, when available.
  - For a GSM Phase 2+ Release 1997 MS, references to GSM documents are to version 6.x.y, when available.
  - For a GSM Phase 2+ Release 1996 MS, references to GSM documents are to version 5.x.y., when available.

Note: 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.

EXAMPLE: References for a R99 MS shall be interpreted as:

- [1] 3GPP TS 21.905 R99
  - [2] 3GPP TS 22.001 R99
  - etc.
- [1] 3GPP TS 01.04 (R96 to R98): "Abbreviations and acronyms".  
3GPP TR 21.905 (R99 onwards): "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 02.01 (R96 to R98): "Principles of telecommunication services supported by a GSM Public Land Mobile Network (PLMN)".  
3GPP TS 22.001 (R99 onwards): "Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".
- [3] 3GPP TS 02.03 (R96 to R98): "Teleservices supported by a GSM Public Land Mobile Network (PLMN)".  
3GPP TS 22.003 (R99 onwards): "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".
- [4] 3GPP TS 02.04 (R96 to R98): "General on supplementary services".  
3GPP TS 22.004 (R99 onwards): "General on supplementary services".
- [5] 3GPP TS 02.06 (R96 to R98): "Types of Mobile Stations (MS)".
- [6] 3GPP TS 02.07 (R96 to R98): "Mobile Station (MS) features".
- [7] 3GPP TS 03.38 (R96 to R98): "Alphabets and language-specific information".  
3GPP TS 23.038 (R99 onwards): "Alphabets and language-specific information".
- [8] 3GPP TS 03.40 (R96 to R98): "Technical realization of the Short Message Service (SMS); Point-to-Point (PP)".  
3GPP TS 23.040 (R99 onwards): "Technical realization of the Short Message Service (SMS)".
- [9] 3GPP TS 03.41 (R96 to R98): "Technical realization of Cell Broadcast Service (CBS)".  
3GPP TS 23.041 (R99 onwards): "Technical realization of Cell Broadcast Service (CBS)".
- [10] 3GPP TS 04.08 (R96 to R98): "Mobile radio interface; Layer 3 specification".  
3GPP TS 24.008 (R99 onwards): "Mobile radio interface layer 3 specification; Core network protocols; Stage 3".
- [11] 3GPP TS 04.11 (R96 to R98): "Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".  
3GPP TS 24.011 (R99 onwards): "Point-to-Point (PP) Short Message Service (SMS) Support on mobile radio interface".
- [12] 3GPP TS 51.010-1 (Rel-5): "Mobile Station (MS) conformance specification; Part 1: Conformance specification".
- [13] 3GPP TS 11.11 (R96 to R99): "Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface".
- [14] 3GPP TS 11.12 (R96): "Specification of the 3 Volt Subscriber Identity Module - Mobile Equipment (SIM-ME) interface".
- [15] 3GPP TS 11.14 (R96 to R99): "Specification of the SIM application toolkit for the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".
- [16] Void.
- [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 07.07 (R96 to R98): "AT command set for GSM Mobile Equipment (ME)"  
3GPP TS 27.007 (R99 onwards): "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 31.124: "Mobile Equipment (ME) conformance test specification; Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification".
  - [22] 3GPP TS 31.111: "USIM Application Toolkit (USAT)"
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## 3 Definitions and abbreviations

### 3.1 Mobile station definition and configurations

The mobile station definition and configurations specified in TS 51.010-1 [12] clause 3.1 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 SIM 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 51.010-1 [12] clause 3.2.3 shall apply, unless otherwise specified in the present clause.

See table B.1.

#### 3.2.4 Definitions

For the purposes of the present document, the terms and definitions given in TS 51.010-1 [12], clause 3.3, 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 9x 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 "Terminal Profile" column gives a reference to the corresponding Terminal Profile bit(s) that is/are related to the toolkit feature(s) of the respective test(s).
- The "Recommendation for terminals also supporting USAT" column should be used in conjunction with the entry in the "Rel9x ME" column. The column indicates if the test is applicable or redundant providing that the equivalent USAT test has been performed with the terminal supporting SAT and USAT.
- The "Additional test case execution parameter" column shall be used in conjunction with the entry in the "Rel9x ME" column. The column indicates if the test is affected by additional test case execution parameters.

#### 3.2.4.3 Status and notations

The "Release 9x ME" columns shows 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 "Recommendation for terminals also supporting USAT" column shows the status of the entries as follows:

A	applicable - the test is applicable according to the corresponding entry in the "R9x ME" column
---	---

R	redundant – the test has to be considered as redundant when the corresponding TS 31.124 [21] test has been validated and executed. In that case the requirement may be verified by means of TS 31.124 [21].
R(x)	redundant – the test has to be considered as redundant when the corresponding TS 31.124 [21] test "x" has been validated and executed. In that case the requirement may be verified by means of TS 31.124 [21].
AERi	Additional test Execution Recommendation – with respect to the above listed definitions of ("A") and ("R") the test is applicable ("A") or redundant ("R") depending 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 a unique parameter which is defined immediately following the table.
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#### 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 SIM Application Toolkit is optional for Mobile Equipment. However, if an ME states conformance with a specific GSM 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 SIM 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	O		O_Cap_Conf
2	Sustained text	O		O_sust_text
3	UCS2 coding scheme for Entry	O		O_Ucs2_Entry
4	Extended Text String	O		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_Displ
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	Mobile supporting Fixed Dialling Numbers	O		O_FDN
24	Mobile supporting Barred Dialling Numbers	O		O_BDN
25	Mobile supporting "+CIMI" in combination with Run AT Command	O		O_+CIMI
26	UCS2 in Cyrillic	O		O_UCS2_Cyrillic
27	Mobile supporting '9EXX' response code for SIM data download error	O		O_9EXX
28	Mobile supporting Envelope Call Control always sent to the SIM during automatic redial mode	O		O_CC_Auto_Redial
29	Mobile supporting 2 <sup>nd</sup> alpha identifier in SET UP CALL	O		O_SetUp_Call_Sec_Alpha_Id
30	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
31	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
32	Terminal supports Dual Transfer Mode (allowing GPRS connection and call at the same time)	O		O_DTM
33	Terminal supports Long ForwardToNumber	O		O_longFTN
34	Terminal executes User confirmation phase before sending PDP context activation request	O		O_User_Confirm_Before_PDP_Context_Request
35	Terminal supports SAT and USAT	O		O_SAT_USAT
36	ME requesting for user confirmation before sending the Envelope Call Control command	O		O_UC_Before_EnvCC

37	ME requesting for user confirmation after sending the Envelope Call Control command	O		O_UC_After_EnvCC
38	ME supports Call Hold Supplementary Service	O		O_Serv_SS_HOLD
39	Void			
40	Void			
41	Void			
42	Terminal supports at least one supplementary service.	O		O_AddInfo_SS
43	Terminal supports "Call Forwarding Unconditional"	O		O_Serv_SS_CFU
44	Terminal supports "Calling Line Identification Restriction"	O		O_Serv_SS_CLIR
45	Terminal supports display capability	C001		O_No_Type_ND
46	Terminal supports keypad	C001		O_No_Type_NK
47	Terminal supports audio alerting	C001		O_No_Type_NA
48	Terminal supports speech call	C001		O_No_Type_NS
49	Terminal supports multiple languages	C001		O_No_Type_NL
50	Terminal displays icons as defined in record 1 of EF(IMG) for Display Text command	O		O_Icon Rec1_Disp_Text
51	Terminal displays icons as defined in record 2 of EF(IMG) for Display Text command	O		O_Icon Rec2_Disp_Text
52	Terminal displays icons as defined in record 5 of EF(IMG) for Display Text command	O		O_Icon Rec5_Disp_Text
53	Terminal displays icons as defined in record 1 of EF(IMG) for Get Inkey command	O		O_Icon Rec1_Get_Inkey
54	Terminal displays icons as defined in record 2 of EF(IMG) for Get Inkey command	O		O_Icon Rec2_Get_Inkey
55	Terminal displays icons as defined in record 5 of EF(IMG) for Get Inkey command	O		O_Icon Rec5_Get_Inkey
56	Terminal displays icons as defined in record 1 of EF(IMG) for Get Input command	O		O_Icon Rec1_Get_Input
57	Terminal displays icons as defined in record 2 of EF(IMG) for Get Input command	O		O_Icon Rec2_Get_Input
58	Terminal displays icons as defined in record 5 of EF(IMG) for Get Input command	O		O_Icon Rec5_Get_Input
59	Terminal displays icons as defined in record 1 of EF(IMG) for Play Tone command	O		O_Icon Rec1_Play_Tone
60	Terminal displays icons as defined in record 2 of EF(IMG) for Play Tone command	O		O_Icon Rec2_Play_Tone
61	Terminal displays icons as defined in record 5 of EF(IMG) for Play Tone command	O		O_Icon Rec5_Play_Tone
62	Terminal displays icons as defined in record 1 of EF(IMG) for Set Up Menu command	O		O_Icon Rec1_Set_Up_Menu
63	Terminal displays icons as defined in record 2 of EF(IMG) for Set Up Menu command	O		O_Icon Rec2_Set_Up_Menu
64	Terminal displays icons as defined in record 5 of EF(IMG) for Set Up Menu command	O		O_Icon Rec5_Set_Up_Menu

65	Terminal displays icons as defined in record 1 of EF(IMG) for Select Item command	O		O_Icon_Rec1_Select_Item
66	Terminal displays icons as defined in record 2 of EF(IMG) for Select Item command	O		O_Icon_Rec2_Select_Item
67	Terminal displays icons as defined in record 5 of EF(IMG) for Select Item command	O		O_Icon_Rec5_Select_Item
68	Terminal displays icons as defined in record 1 of EF(IMG) for Send Short Message command	O		O_Icon_Rec1_Send_SM
69	Terminal displays icons as defined in record 2 of EF(IMG) for Send Short Message command	O		O_Icon_Rec2_Send_SM
70	Terminal displays icons as defined in record 5 of EF(IMG) for Send Short Message command	O		O_Icon_Rec5_Send_SM
71	Terminal displays icons as defined in record 1 of EF(IMG) for Send SS command	O		O_Icon_Rec1_Send_SS
72	Terminal displays icons as defined in record 2 of EF(IMG) for Send SS command	O		O_Icon_Rec2_Send_SS
73	Terminal displays icons as defined in record 5 of EF(IMG) for Send SS command	O		O_Icon_Rec5_Send_SS
74	Terminal displays icons as defined in record 1 of EF(IMG) for Send USSD command	O		O_Icon_Rec1_Send_USSD
75	Terminal displays icons as defined in record 2 of EF(IMG) for Send USSD command	O		O_Icon_Rec2_Send_USSD
76	Terminal displays icons as defined in record 5 of EF(IMG) for Send USSD command	O		O_Icon_Rec5_Send_USSD
77	Terminal displays icons as defined in record 1 of EF(IMG) for Set Up Call command	O		O_Icon_Rec1_Set_Up_Call
78	Terminal displays icons as defined in record 2 of EF(IMG) for Set Up Call command	O		O_Icon_Rec2_Set_Up_Call
79	Terminal displays icons as defined in record 5 of EF(IMG) for Set Up Call command	O		O_Icon_Rec5_Set_Up_Call
80	Terminal displays icons as defined in record 1 of EF(IMG) for Set Up Idle Mode Text command	O		O_Icon_Rec1_Set_Up_Idle_Mode_Text
81	Terminal displays icons as defined in record 2 of EF(IMG) for Set Up Idle Mode Text command	O		O_Icon_Rec2_Set_Up_Idle_Mode_Text
82	Terminal displays icons as defined in record 5 of EF(IMG) for Set Up Idle Mode Text command	O		O_Icon_Rec5_Set_Up_Idle_Mode_Text
83	Terminal displays icons as defined in record 1 of EF(IMG) for Run AT Command command	O		O_Icon_Rec1_Run_AT_Cmd
84	Terminal displays icons as defined in record 2 of EF(IMG) for Run AT Command command	O		O_Icon_Rec2_Run_AT_Cmd
85	Terminal displays icons as defined in record 5 of EF(IMG) for Run AT Command command	O		O_Icon_Rec5_Run_AT_Cmd
86	Terminal displays icons as defined in record 1 of EF(IMG) for Send DTMF command	O		O_Icon_Rec1_Send_DTMF

87	Terminal displays icons as defined in record 2 of EF(IMG) for Send DTMF command	O		O_Icon_Rec2_Send_DTMF
88	Terminal displays icons as defined in record 5 of EF(IMG) for Send DTMF command	O		O_Icon_Rec5_Send_DTMF
89	Terminal displays icons as defined in record 1 of EF(IMG) for Launch Browser command	O		O_Icon_Rec1_Launch_Browser
90	Terminal displays icons as defined in record 2 of EF(IMG) for Launch Browser command	O		O_Icon_Rec2_Launch_Browser
91	Terminal displays icons as defined in record 5 of EF(IMG) for Launch Browser command	O		O_Icon_Rec5_Launch_Browser
92	Terminal supports selection of default item in Select Item	O		O_Select_Item_Default_Item
C001	If feature is implemented according to TS 31.111 [22] Rel-8 or later then O, else M			

## 3.4 Applicability table

**Table B.1: Applicability of tests**

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
1	<b>PROFILE DOWNLOAD 27.22.1</b>	R96	1	M	M	M	M	E.1/1	No			
2	<b>Contents of the TERMINAL PROFILE command 27.22.2</b>	R96		M	M	M	M	E.1/1	No			
3	<b>Servicing of Proactive SIM Commands 27.22.3</b>	R96		M	M	M	M		No			
4	<b>DISPLAY TEXT 27.22.4.1</b>											
	Unpacked	R96	1.1	C139	C139	C139	C139	E.1/17 AND E.1/110	No		AER001	
	Screen busy	R96	1.2	C139	C139	C139	C139	E.1/17 AND E.1/110	No		AER001	
	high priority	R96	1.3	C139	C139	C139	C139	E.1/17 AND E.1/110	No		AER001	
	Packed	R96	1.4	C139	C139	C139	C139	E.1/17 AND E.1/110	No		AER001	
	clear after delay	R96	1.5	C139	C139	C139	C139	E.1/17 AND E.1/110	No		AER001	
	long text up to 160 bytes	R96	1.6	C139	C139	C139	C139	E.1/17 AND E.1/110	No		AER001	
	Backwards move in SIM session	R96	1.7	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/17 AND E.1/110 AND E.1/111	No		AER001	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Session terminated by user	R96	1.8	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/17 AND E.1/110 AND E.1/111	No		AER001	
	Command not understood by ME	R96	1.9	C139	C139	C139	C139	E.1/17 AND E.1/110	No		AER001	
	no response from user	R96	2.1	C120 AND C139 AND C140	E.1/17 AND E.1/110 AND E.1/111	No		AER001				
	Extension Text	R98	3.1			C106 AND C139	C106 AND C139	E.1/17 AND E.1/16 AND E.1/110	No		AER001	
	sustained text	R98	4.1, 4.2			C104 AND C139	C104 AND C139	E.1/17 AND E.1/65 AND E.1/110	No			
	sustained text	R98	4.3			C104 AND C139 AND C140	C104 AND C139 AND C140	E.1/17 AND E.1/65	No			
	sustained text	R98	4.4			C104 AND C139 AND C140	C104 AND C139 AND C140	E.1/17 AND E.1/65	Yes			
	Icons – basic icon	R98	5.1, 5.3			C108 AND C139	C108 AND C139	E.1/17 AND E.1/111	No			
	Icons – colour icon	R98	5.2			C134 AND C139	C134 AND C139	E.1/17 AND E.1/111	No			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	UCS2 display	R97	6.1		C118 AND C139	C118 AND C139	C118 AND C139	E.1/17 AND E.1/15 AND E.1/111	No			
5	<b>GET INKEY 27.22.4.2</b>											
	prompt unpacked	R96	1.1	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No		AER001	
	prompt packed	R96	1.2	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No		AER001	
	digits only	R96	1.1	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No		AER001	
	Backwards move in SIM session	R96	1.3	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No		AER001	
	Session terminated by user	R96	1.4	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No		AER001	
	SMS alphabet	R96	1.5	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No		AER001	
	Long text up to 160 bytes	R96	1.6	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No		AER001	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	no response from user	R96	2.1	C120 AND C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No		AER001				
	UCS2 display	R97	3.1		C118 AND C139 AND C140	C118 AND C139 AND C140	C118 AND C139 AND C140	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No			
	UCS2 display, Long text up to 70 chars	R97	3.2		C118 AND C139 AND C140	C118 AND C139 AND C140	C118 AND C139 AND C140	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No			
	UCS2 format of entry	R97	4.1		C105 AND C139 AND C140	C105 AND C139 AND C140	C105 AND C139 AND C140	E.1/18 AND E.1/14 AND E.1/110 AND E.1/111	No			
	"Yes/No" response	R98	5.1			C139 AND C140	C139 AND C140	E.1/18 AND E.1/60 AND E.1/110 AND E.1/111	No		AER001	
	Icons – basic icon	R98	6.1, 6.2			C108 AND C139 AND C140	C108 AND C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No			
	Icons – colour icon	R98	6.3, 6.4			C134 AND C139 AND C140	C134 AND C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Help information	R97	7.1		C107 AND C139 AND C140	C107 AND C139 AND C140	C107 AND C139 AND C140	E.1/18 AND E.1/110 AND E.1/111	No		AER001	
6	<b>GET INPUT 27.22.4.3</b>											
	input unpacked	R96	1.1	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	input packed	R96	1.2	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	digits only	R96	1.1	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	SMS alphabet	R96	1.3	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	hidden input	R96	1.4	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	min / max acceptable length	R96	1.5, 1.9	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	Backwards move in SIM session	R96	1.6	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Session terminated by user	R96	1.7	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	Prompt text up to 160 bytes	R96	1.8	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	SMS default alphabet, ME to echo text, packing not required	R96	1.9	C139 AND C140M	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	Null length for the text string	R96	1.10	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	no response from user	R96	2.1	C120 AND C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001				
	UCS2 display	R97	3.1, 3.2		C118 AND C139 AND C140	C118 AND C139 AND C140	C118 AND C139 AND C140	E.1/19 AND E.1/15 AND E.1/110 AND E.1/111	No			
	UCS2 entry	R97	4.1, 4.2		C105 AND C139 AND C140	C105 AND C139 AND C140	C105 AND C139 AND C140	E.1/19 AND E.1/14 AND E.1/110 AND E.1/111	No			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	default text for the input	R97	5.1, 5.2		C139 AND C140	C139 AND C140	C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No		AER001	
	Icons – basic icon	R98	6.1, 6.2			C108 AND C139 AND C140	C108 AND C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No			
	Icons – colour icon	R98	6.3, 6.4			C134 AND C139 AND C140	C134 AND C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No			
	help information	R97	7.1		C107 AND C139 AND C140	C107 AND C139 AND C140	C107 AND C139 AND C140	E.1/19 AND E.1/110 AND E.1/111	No			
7	<b>MORE TIME</b> 27.22.4.4	R96	1.1	M	M	M	M	E.1/20	No			
8	<b>PLAY TONE</b> 27.22.4.5											
	play all tones	R96	1.1	C140 AND C141 AND C142	E.1/21 AND E.1/110 AND E.1/111	Yes						
	UCS2 display	R97	TBD					E.1/21 AND E.1/15 AND E.1/110 AND E.1/111				
	icons	R98	TBD					E.1/21 AND E.1/110 AND E.1/111				

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
9	<b>POLL INTERVAL</b> <b>27.22.4.6</b>											
	duration	R96	1.1	M	M	M	M	E.1/22	No		AER001	
10	<b>REFRESH</b> <b>27.22.4.7</b>											
	SIM initialization, enabling FDN mode	R96	1.1	C125 AND C139 AND C140 AND C142	E.1/24 AND E.1/110 AND E.1/111	Yes						
	file change notification of FDN file	R96	1.2	C125 AND C139 AND C140 AND C142	E.1/24 AND E.1/110 AND E.1/111	Yes						
	SIM initialization and file change notification of PLMN	R96	1.3	M	M	M	M	E.1/24	Yes			
	SIM initialization and full file change notification, enabling FDN mode	R96	1.4	C125 AND C139 AND C140 AND C142	E.1/24 AND E.1/110 AND E.1/111	Yes						
	SIM reset	R96	1.5	M	M	M	M	E.1/24	Yes			
	SIM Initialization after SMS-PP data download	R96	1.6	C125 AND C139 AND C140 AND C142	E.1/24 AND E.1/110 AND E.1/111	Yes						

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	IMSI Changing procedure, SIM Initialization and File Change Notification)	R98	2.1			M	M	E.1/24	Yes			
	IMSI Changing procedure, SIM Initialization and Full File Change Notification)	R98	2.2			M	M	E.1/24	Yes			
	IMSI Changing procedure, SIM Reset	R98	2.3			M	M	E.1/24	Yes			
11	<b>SET UP MENU 27.22.4.8</b>											
	Set up, menu selection, replace and remove menu	R96	1.1	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/30 AND E.1/4 AND E.1/110 AND E.1/111	No		AER001	
	Large menu	R96	1.2	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/30 AND E.1/4 AND E.1/110 AND E.1/111	No		AER001	
	help information	R97	2.1		C107 AND C139 AND C140	C107 AND C139 AND C140	C107 AND C139 AND C140	E.1/30 AND E.1/4 AND E.1/110 AND E.1/111	No		AER001	
	next action indicator	R97	3.1		C139 AND C140	C139 AND C140	C139 AND C140	E.1/30 AND E.1/110 AND E.1/111	No		AER001	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Icons – basic icon	R98	4.1, 4.2			C135 AND C139 AND C140	C135 AND C139 AND C140	E.1/30 AND E.1/110 AND E.1/111	No			
	soft key access	R99	5.1				C112 AND C139 AND C140	E.1/30 AND E.1/74 AND E.1/110 AND E.1/111	No			
12	<b>SELECT ITEM 27.22.4.9</b>											
	Mandatory features	R96	1.1	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/25 AND E.1/110 AND E.1/111	No		AER001	
	Large menu	R96	1.2, 1.3, 1.5,1.6	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/25 AND E.1/110 AND E.1/111	No		AER001	
	Backwards move	R96	1.4	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/25 AND E.1/110 AND E.1/111	No		AER001	
	user termination	R96	1.5	C139 AND C140	C139 AND C140	C139 AND C140	C139 AND C140	E.1/25 AND E.1/110 AND E.1/111	No		AER001	
	next action indicator	R97	2.1		C139 AND C140	C139 AND C140	C139 AND C140	E.1/25 AND E.1/110 AND E.1/111	No			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	default selected item	R97	3.1		C139 AND C140 AND C150	C139 AND C140 AND C150	C139 AND C140 AND C150	E.1/25 AND E.1/110 AND E.1/111	No		AER001	
	help information	R97	4.1		C107 AND C139 AND C140	C107 AND C139 AND C140	C107 AND C139 AND C140	E.1/25 AND E.1/110 AND E.1/111	No			
	Icons – basic icon	R98	5.1, 5.2			C135 AND C139 AND C140	C135 AND C139 AND C140	E.1/25 AND E.1/110 AND E.1/111	No			
	Presentation style	R98	6.1, 6.2			C139 AND C140	C139 AND C140	E.1/25 AND E.1/110 AND E.1/111	No			
	Soft keys	R99	7.1				C112 AND C139 AND C140	E.1/25 AND E.1/73 AND E.1/110 AND E.1/111	No			
	no response from user	R96	8.1	C120 AND C139 AND C140	E.1/25 AND E.1/110 AND E.1/111	No		AER001				
13	<b>SEND SMS 27.22.4.10</b>											
	Packing not required, 8 bit data	R96	1.1	M	M	M	M	E.1/26 AND E.1/110	Yes			TCEP001
	Packing required, 8 bit data	R96	1.2	M	M	M	M	E.1/26 AND E.1/110	Yes		AER002	TCEP001
	Packing not required, SMS default alphabet	R96	1.3	M	M	M	M	E.1/26 AND E.1/110	Yes		AER002	TCEP001

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Packing required, 8 bit data, 160 bytes length	R96	1.4	M	M	M	M	E.1/26 AND E.1/110	Yes		AER002	TCEP001
	Packing not required, SMS default alphabet, 160 bytes length	R96	1.5	M	M	M	M	E.1/26 AND E.1/110	Yes		AER002	TCEP001
	Alpha identifier	R96	1.6, 1.8	M	M	M	M	E.1/26 AND E.1/110	Yes		AER002	TCEP001
	Alpha identifier length "00"	R96	1.7	M	M	M	M	E.1/26	Yes		AER002	TCEP001
	UCS2 SMS	R97	2.1		C118	C118	C118	E.1/26 AND E.1/15 AND E.1/110	Yes			TCEP001
	Icons – basic icon	R98	3.1, 3.2			C108	C108	E.1/26 AND E.1/110	Yes			TCEP001
14	<b>SEND SS 27.22.4.11</b>											
	call forward unconditional, all bearers, successful	R96	1.1	C129 AND C137	C129 AND C137	C129 AND C137	C129 AND C137	E.1/27 AND E.1/110	Yes			TCEP001
	call forward unconditional, all bearers, Return Error	R96	1.2	C137	C137	C137	C137	E.1/27 AND E.1/110	Yes		AER001	TCEP001
	call forward unconditional, all bearers, Reject	R96	1.3	C137	C137	C137	C137	E.1/27 AND E.1/110	Yes		AER001	TCEP001
	call forward unconditional, all bearers, successful, SS request size limit	R96	1.4	C129 AND C137	C129 AND C137	C129 AND C137	C129 AND C137	E.1/27 AND E.1/110	Yes		AER001	TCEP001

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	interrogate CLIR status, successful, alpha identifier limits	R96	1.5	C138	C138	C138	C138	E.1/27 AND E.1/110	Yes		AER001	TCEP001
	call forward unconditional, all bearers, successful, null data alpha identifier	R96	1.6	C129 AND C137	C129 AND C137	C129 AND C137	C129 AND C137	E.1/27 AND E.1/110	Yes		AER001	TCEP001
	call forward unconditional, all bearers, successful, basic icon support	R98	2.1, 2.3			C108 AND C137	C108 AND C137	E.1/27 AND E.1/110	Yes		AER001	TCEP001
	call forward unconditional, all bearers, successful, colour icon support	R98	2.2			C134 AND C137	C134 AND C137	E.1/27 AND E.1/110	Yes		AER001	TCEP001
	call forward unconditional, all bearers, successful, basic icon non self-explanatory, no alpha identifier presented	R98	2.4			C144 AND C137	C144 AND C137	E.1/27 AND E.1/110	Yes		AER001	TCEP001
	UCS2 display	R97	3.1		C118 AND C137	C118 AND C137	C118 AND C137	E.1/27 AND E.1/15 AND E.1/110	Yes			TCEP001
	<b>15 SEND USSD 27.22.4.12</b>											
	7-bit data, successful	R96	1.1		M	M	E.1/28 AND E.1/110	Yes				TCEP001

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	8-bit data, successful	R96	1.2			M	M	E.1/28 AND E.1/110	Yes		AER001	TCEP001
	UCS2 data, successful	R96	1.3			M	M	E.1/28 AND E.1/110	Yes		AER001	TCEP001
	7-bit data, unsuccessful	R96	1.4			M	M	E.1/28 AND E.1/110	Yes		AER001	TCEP001
	7-bit data, unsuccessful	R96	1.5			M	M	E.1/28 AND E.1/110	Yes		AER001	TCEP001
	256 octets, 7-bit data, successful, long alpha identifier	R96	1.6			M	M	E.1/28 AND E.1/110	Yes		AER001	TCEP001
	7-bit data, successful, no alpha identifier	R96	1.7			M	M	E.1/28 AND E.1/110	Yes		AER001	
	7-bit data, successful, null length alpha identifier	R96	1.8			M	M	E.1/28 AND E.1/110	Yes		AER001	TCEP001
	Icons – basic icon	R98	2.1, 2.3			C108	C108	E.1/28 AND E.1/110	Yes			TCEP001
	Icons – colour icon	R98	2.2			C145	C145	E.1/28 AND E.1/110	Yes			TCEP001
	7-bit data, basic icon non self-explanatory, no alpha identifier presented	R98	2.4			C146	C146	E.1/28 AND E.1/110	Yes			TCEP001
	UCS2	R97	3.1			C118	C118	E.1/28 AND E.1/15 AND E.1/110	Yes			TCEP001
16	SET UP CALL 27.22.4.13											

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Call confirmed by the user and connected	R96	1.1	C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes						
	call rejected by the user	R96	1.2	C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes		AER001				
	Void											
	putting all other calls on hold, ME busy	R96	1.4	C133 AND C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes		AER001				
	disconnecting all other calls, ME busy	R96	1.5	C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes		AER001				
	only if not currently busy on another call, ME busy	R96	1.6	C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes		AER001				
	putting all other calls on hold, call hold is not allowed	R96	1.7	C133 AND C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes		AER001				
	Capability configuration	R96	1.8	C101 AND C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes		AER001				

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	long dialling number string	R96	1.9	C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes		AER001				
	long first alpha identifier	R96	1.10	C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes		AER001				
	Called party subaddress	R96	1.11	C124 AND C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes		AER001				
	maximum duration for the redial mechanism	R96	1.12	C119 AND C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes		AER001				
	second alpha identifier	R98	2.1			C139 AND C140 AND C142	C139 AND C140 AND C142	E.1/29 AND E.1/63 AND E.1/110 AND E.1/111	Yes			
	UCS2 Display	R97	TBD					E.1/29 AND E.1/15	Yes			
	Icons – basic icon	R98	3.1,3.2, 3.4			C108 AND C139 AND C140 AND C142	C108 AND C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Icons – colour icon	R98	3.3			C134 AND C139 AND C140 AND C142	C134 AND C139 AND C140 AND C142	E.1/29 AND E.1/110 AND E.1/111	Yes			
17	<b>POLLING OFF 27.22.4.14</b>	R96	1.1	C142	C142	C142	C142	E.1/23	Yes			
18	<b>PROVIDE LOCAL INFO 27.22.4.15</b>											
	location information	R96	1.1	M	M	M	M	E.1/31	Yes			
	IMEI	R96	1.2	M	M	M	M	E.1/31	Yes		AER001	
	network measurement results and BCCH channel list	R98	1.3			M	M	E.1/32 AND E.1/67	Yes		AER001	
	Date, time and time zone	R98	1.4			M	M	E.1/59	No		AER001	
	language setting	R99	1.5				M	E.1/68	No		AER001	
	Timing advance	R99	1.6				M	E.1/69	Yes		AER001	
19	<b>SET UP EVENT LIST 27.22.4.16</b>											
	Set up call connected event	R97	1.1		C142	C142	C142	E.1/33 AND E.1/35	Yes		AER001	
	Replace by new event list	R97	1.2		C142	C142	C142	E.1/33 AND E.1/35 AND E.1/36	Yes		AER001	
	Remove event	R97	1.3		C142	C142	C142	E.1/33 AND E.1/35	Yes		AER001	
	Remove Event on ME Power Cycle	R97	1.4		C142	C142	C142	E.1/33 AND E.1/35	Yes		AER001	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
20	<b>PERFORM CARD APDU</b> <b>27.22.4.17</b>											
	Additional card inserted, Select MF and Get Response	R98	1.1			C109	C109	E.1/51	No			
	Additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN	R98	1.2			C109	C109	E.1/51	No			
	Additional card inserted, card powered off	R98	1.3			C109	C109	E.1/51	No			
	No card inserted, card powered off	R98	1.4			C109	C109	E.1/51	No			
	Invalid card reader identifier	R98	1.5			C109	C109	E.1/51	No			
	Detachable reader	R98	2.1			C116	C116	E.1/51	No			
21	<b>POWER OFF CARD</b> <b>27.22.4.18</b>											
	Additional card inserted	R98	1.1			C109	C109	E.1/50	No			
	No card inserted	R98	1.2			C109	C109	E.1/50	No			
	Detachable reader	R98	2.1			C116	C116	E.1/50	No			
22	<b>POWER ON CARD</b> <b>27.22.4.19</b>											
	Additional card inserted	R98	1.1			C109	C109	E.1/49	No			
	No ATR	R98	1.2			C109	C109	E.1/49	No			
	No card inserted	R98	1.3			C109	C109	E.1/49	No			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Detachable reader	R98	2.1			C116	C116	E.1/49	No			
23	<b>GET READER STATUS 27.22.4.20</b>											
	Additional card inserted, card powered	R98	1.1			C109	C109	E.1/52	No			
	Additional card inserted, card not powered	R98	1.2			C109	C109	E.1/52	No			
	Additional card inserted, card not present	R98	1.3			C109	C109	E.1/52	No			
	Detachable reader	R98	2.1			C116	C116	E.1/52	No			
24	<b>TIMER MANAGEMENT 27.22.4.21.1</b>											
	Start timer 1 several times, get the current value of the timer and deactivate the timer successfully	R98	1.1			M	M	E.1/57 AND E.1/58	No		AER001	
	Start timer 2 several times, get the current value of the timer and deactivate the timer successfully	R98	1.2			M	M	E.1/57 AND E.1/58	No		AER001	
	Start timer 8 several times, get the current value of the timer and deactivate the timer successfully	R98	1.3			M	M	E.1/57 AND E.1/58	No		AER001	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
25	Try to get the current value of a timer which is not started: action in contradiction with the current timer state	R98	1.4			M	M	E.1/57 AND E.1/58	No		AER001	
	Try to deactivate a timer which is not started: action in contradiction with the current timer state	R98	1.5			M	M	E.1/57 AND E.1/58	No		AER001	
	Start 8 timers successfully	R98	1.6			M	M	E.1/57 AND E.1/58	No		AER001	
26	<b>ENVELOPE TIMER EXPIRATION</b> 27.22.4.21.2											
	Pending proactive SIM command	R98	2.1			M	M	E.1/6 AND E.1/57	No		AER001	
	SIM application toolkit busy	R98	2.2			M	M	E.1/6 AND E.1/57 AND E.1/20	No		AER001	
27	<b>SET UP IDLE MODE TEXT</b> 27.22.4.22											
	Display idle mode text	R98	1.1			C139	C139	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Replace idle mode text	R98	1.2			C139	C139	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes			
	Remove idle mode test	R98	1.3			C139	C139	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes			
	Competing information on ME display	R98	1.4			C139 AND C141	C139	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes			
	ME powered cycled	R98	1.5			C139	C139	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes			
	Refresh with SIM initialization	R98	1.6			C139	C139	E.1/61 AND E.1/24 AND E.1/33 AND E.1/39 AND E.1/110	Yes			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Large text string	R98	1.7			C139	C139	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes			
	Icons – basic icon	R98	2.1, 2.2			C108 AND C139	C108 AND C139	E.1/61 AND E.1/39 AND E.1/110	Yes			
	Icons – colour icon	R98	2.3			C134 AND C139	C134 AND C139	E.1/61 AND E.1/39 AND E.1/110	Yes			
	Icon is not self-explanatory, empty text string	R98	2.4			C147 AND C139	C147 AND C139	E.1/61 AND E.1/39 AND E.1/110	Yes			
	UCS2 display	R98	3.1			C118 AND C139	C118 AND C139	E.1/61 AND E.1/15 AND E.1/39 AND E.1/110	Yes			
27	<b>RUN AT COMMAND 27.22.4.23</b>											
	No alpha Identifier	R98	1.1			C110	C110	E.1/62	No			
	null data alpha identifier presented	R98	1.2			C110	C110	E.1/62	No			
	alpha identifier presented	R98	1.3			C110	C110	E.1/62 AND E.1/110	No			
	Icons – basic icon	R98	2.1, 2.3			C114 AND C139	C114 AND C139	E.1/62 AND E.1/110	No			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Icons – colour icon	R98	2.2 2.4,			C136 AND C139	C136 AND C139	E.1/62 AND E.1/110	No			
	basic icon non self-explanatory, no alpha identifier presented	R98	2.5			C148 AND C139	C148 AND C139	E.1/62 AND E.1/110	No			
28	<b>SEND DTMF 27.22.4.24</b>											
	Normal	R98	1.1			C142	C142	E.1/66	Yes		AER001	
	alpha identifier	R98	1.2, 1.3			C142	C142	E.1/66 AND E.1/110	Yes			TCEP001
	Mobile is not in a speech call	R98	1.4			C142	C142	E.1/66 AND E.1/110	Yes		AER001	TCEP001
	Icons – basic icon	R98	2.1, 2.3			C108 AND C142	C108 AND C142	E.1/66 AND E.1/110	Yes			TCEP001
	Icons – colour icon	R98	2.2			C134 AND C142	C134 AND C142	E.1/66 AND E.1/110	Yes			TCEP001
	UCS2 display	R98	3.1			C118 AND C142	C118 AND C142	E.1/66 AND E.1/15 AND E.1/110	Yes			TCEP001
29	<b>LANGUAGE NOTIFICATION 27.22.4.25</b>											
	Specific language notification	R99	1.1				C143	E.1/70	No			
	Non specific language notification	R99	1.2				C143	E.1/70	No			
30	<b>LAUNCH BROWSER 27.22.4.26</b>											

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	No session already launched: Connect to the default URL	R99	1.1				C111 AND C139 AND C140	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 C139 AND C140	E.1/71 AND E.1/110 AND E.1/111	Yes			
	Browser identity, no alpha identifier	R99	1.3				C111 AND C139 AND C140	E.1/71 AND E.1/110 AND E.1/111	Yes			
	one bearer specified and gateway/proxy identity	R99	1.4				C122 AND C139 AND C140	E.1/71 AND E.1/110 AND E.1/111	Yes			
	void	R99	1.5				Void	Void				
	Interaction with current session	R99	2.1, 2.2				C111 AND C139 AND C140	E.1/71 AND E.1/110 AND E.1/111	Yes			
	Interaction with current session	R99	2.3				C111 AND C139 AND C140	E.1/71 AND E.1/110 AND E.1/111	Yes		AER001	
	UCS2 display	R99	3.1				C117 AND C139 AND C140	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 C139 AND C140	E.1/71 AND E.1/110 AND E.1/111	Yes			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
31	<b>OPEN CHANNEL 27.22.4.27</b>											
	Void	R99	1.1 - 1.10					Void	Void			
	immediate link establishment, GPRS, no local address, no alpha identifier, no network access name	R99	2.1					C121	E.1/89 AND E.1/98	Yes		
	immediate link establishment GPRS, no alpha identifier, with network access name	R99	2.2					C121	E.1/89 AND E.1/98	Yes		
	immediate link establishment, GPRS, with alpha identifier	R99	2.3					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	E.1/89 AND E.1/98	Yes		TCEP001
	immediate link establishment, GPRS, command performed with modifications (buffer size)	R99	2.5					C127	E.1/89 AND E.1/98	Yes		
	Void	Void	2.6					Void	Void			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	immediate link establishment, GPRS, open command with alpha identifier, User did not accept the proactive command	R99	2.7				C130	E.1/89 AND E.1/98 AND E.1/110 AND E.1/111	Yes			TCEP001, TCEP002
	GPRS, ME busy on call	R99	2.8				C128	E.1/89 AND E.1/98	Yes			
32	<b>CLOSE CHANNEL</b> <b>27.22.4.28</b>											
	successful	R99	1.1				C121	E.1/89 AND E.1/90	Yes			
	with an invalid channel identifier	R99	1.2				C121	E.1/89 AND E.1/90	Yes		AER001	
	on an already closed channel	R99	1.3				C121	E.1/90	Yes		AER001	
33	<b>RECEIVE DATA</b> <b>27.22.4.29</b>											
	already opened channel	R99	1.1				C121	E.1/89 AND E.1/91 AND E.1/92	Yes			
34	<b>SEND DATA</b> <b>27.22.4.30</b>											
	immediate mode	R99	1.1				C121	E.1/89 AND E.1/92	Yes			
	Store mode	R99	1.2				C121	E.1/89 AND E.1/92	Yes		AER001	
	Store mode, Tx buffer fully used	R99	1.3				C121	E.1/89 AND E.1/92	Yes		AER001	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
35	2 consecutive SEND DATA Store mode	R99	1.4				C121	E.1/89 AND E.1/92	Yes		AER001	
	immediate mode with a bad channel identifier	R99	1.5				C121	E.1/89 AND E.1/92	Yes		AER001	
	Void	Void	1.6				Void	Void				
35	<b>GET CHANNEL STATUS</b> <b>27.22.4.31</b>											
	without any BIP channel opened	R99	1.1				C121	E.1/93	Yes		AER001	
	with a BIP channel currently opened	R99	1.2				C121	E.1/89 AND E.1/93	Yes			
	after a link dropped	R99	1.3				C121	E.1/89 AND E.1/93	Yes		AER001	
36	<b>DATA DOWNLOAD TO SIM</b> <b>27.22.5</b>											
37	SMS-PP DATA DOWNLOAD 27.22.5.1								Yes			
	[void]		1.1									
	SIM responds with '91 XX'	R96	1.2	M	M	M	M	E.1/2	Yes			
	More time	R96	1.3	M	M	M	M	E.1/2	Yes			
	8 bit alphabet	R96	1.4	M	M	M	M	E.1/2	Yes			
	[void]		1.5									
	Data coding / message class	R96	1.6	M	M	M	M	E.1/2	Yes			
38	<b>SMS-CB DATA DOWNLOAD</b> <b>27.22.5.2</b>											
	ME does not display message	R96	1.1	M	M	M	M	E.1/3	Yes			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	More time	R96	1.2	M	M	M	M	E.1/3 AND E.1/20	Yes			
	ME displays message	R96	1.3	C139	C139	C139	C139	E.1/3 AND E.1/110	Yes			
39	<b>CALL CONTROL BY SIM 27.22.6</b>											
	Procedure for MO calls (Cell identity in envelope call control)	R97	1.1, 1.2, 1.4, 1.8 to 1.14		C142	C142	C142	E.1/10 AND E.1/11 AND E.1/13 AND E.1/29	Yes		AER001	
	Procedure for MO calls (Cell identity in envelope call control)	R97	1.3 A, 1.5 A		C131 AND C139 AND C140 AND C142	C131 AND C139 AND C140 AND C142	C131 AND C139 AND C140 AND C142	E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/110 AND E.1/111	Yes		AER001	
	Procedure for MO calls (Cell identity in envelope call control)	R97	1.3 B		C132 AND C139 AND C140 AND C142	C132 AND C139 AND C140 AND C142	C132 AND C139 AND C140 AND C142	E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/110 AND E.1/111	Yes		AER001	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	Procedure for MO calls (Cell identity in envelope call control)	R97	1.5 B		C132 AND C142	C132 AND C142	C132 AND C142	E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/110 AND E.1/111	Yes		AER001	
	Procedure for MO calls (Cell identity in envelope call control)	R97	1.6		C142	C142	C142	E.1/10 AND E.1/11 AND E.1/13 AND E.1/29	Yes			
	Procedure for MO calls (Cell identity in envelope call control)	R97	1.7 A		C131 AND C139 AND C140 AND C142	C131 AND C139 AND C140 AND C142	C131 AND C139 AND C140 AND C142	E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/110 AND E.1/111	Yes			
	Procedure for MO calls (Cell identity in envelope call control)	R97	1.7 B		C132 AND C139 AND C140 AND C142	C132 AND C139 AND C140 AND C142	C132 AND C139 AND C140 AND C142	E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/110 AND E.1/111	Yes			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
40	Procedure for SS (Cell identity in envelope call control)	R97	2.1, 2.2, 2.3, 2.4		C137	C137	C137	E.1/10 AND E.1/11	Yes			
	Interaction with FDN (Cell identity in envelope call control)	R97	3.1, 3.2, 3.3, 3.4, 3.5		C125 AND C142	C125 AND C142	C125 AND C142	E.1/10 AND E.1/110 AND E.1/111	Yes			
	Support of BDN service (Cell identity in envelope call control)	R97	4.1, 4.2, 4.3, 4.4		C126 AND C139 AND C140 AND C142	C126 AND C139 AND C140 AND C142	C126 AND C139 AND C140 AND C142	E.1/10 AND E.1/110 AND E.1/111	Yes			
40	<b>EVENT DOWNLOAD 27.22.7</b>											
	27.22.7.1: MT call event	R97	1.1		C142	C142	C142	E.1/34 AND E.1/33	Yes		AER001	
	27.22.7.2.1: call connected event	R97	1.1		C142	C142	C142	E.1/35 AND E.1/33	Yes		AER001	
	27.22.7.2.2: ME supporting SET UP CALL	R97	2.1		C139 AND C140 AND C142	C139 AND C140 AND C142	C139 AND C140 AND C142	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	R97	1.1		C142	C142	C142	E.1/36 AND E.1/33	Yes		AER001	
	27.22.7.4: location status event	R97	1.1		M	M	M	E.1/37 AND E.1/33	Yes			

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
	27.22.7.5: user activity event	R97	1.1		C139	C139	C139	E.1/38 AND E.1/33 AND E.1/111	No		AER001	
	27.22.7.6: idle screen available event	R97	1.1		C139 AND C140	C139 AND C140	C139 AND C140	E.1/39 AND E.1/33 AND E.1/110 AND E.1/111	Yes		AER001	
	27.22.7.7.1: Card reader status normal	R98	1.1			C109	C109	E.1/40 AND E.1/33	No			
	27.22.7.7.2: Detachable card reader	R98	2.1			C116	C116	E.1/40 AND E.1/33	No			
	27.22.7.8: language selection event	R99	1.1				C139 AND C140 AND C143	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				C149 AND C139 AND C140	E.1/42 AND E.1/33 AND E.1/110 AND E.1/111	Yes		AER001	
	27.22.7.10: Data available event	R99	1.1				C121	E.1/43 AND E.1/89 AND E.1/33	Yes		AER001	
	27.22.7.11: Channel status event	R99	1.1				C121	E.1/44 AND E.1/89 AND E.1/33	Yes		AER001	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Network Dependency	Support	Recommendation for terminals also supporting USAT	Additional test case execution parameter
41	<b>MO SMS Control by SIM 27.22.8</b>											
	With proactive command, Allowed , no modification	R98	1.1			M	M	E1/12 AND E.1/26 AND E.1/110	Yes			TCEP001
	With user SMS, Allowed , no modification	R98	1.2			M	M	E1/12	Yes			
	With proactive command, Not allowed	R98	1.3			M	M	E1/12 AND E.1/26 AND E.1/110	Yes			TCEP001
	With user SMS, Not allowed	R98	1.4			M	M	E1/12	Yes			
	With proactive command, Allowed, with modifications	R98	1.5			M	M	E1/12 AND E.1/26 AND E.1/110	Yes			TCEP001
	With user SMS, Allowed, with modifications	R98	1.6			M	M	E1/12	Yes			
	With Proactive command, the SIM responds with '90 00', Allowed, no modification	R98	1.7			M	M	E1/12 AND E.1/26 AND E.1/110	Yes			TCEP001
	Send Short Message attempt by user, the SIM responds with '90 00', Allowed, no modification	R98	1.8			M	M	E1/12	Yes			
	Void											

C101	IF A.1/1 THEN M ELSE N/A	-- O_Cap_Conf
C102	void	
C103	void	
C104	IF A.1/2 THEN M ELSE N/A	-- O_Sust_text
C104	IF A.1/3 AND A.1/26 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.1/25) THEN M ELSE N/A	O_Run_At AND O_+CIMI
C111	IF (A.1/10 OR E.1/71) 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 A.1/6 THEN O.1 ELSE N/A	-- O_Run_At AND O_+CIMI AND O_Icons
C115	IF C111 AND A.1/6 THEN O.1 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	IF C111 AND C118 THEN M ELSE N/A	-- O_LB AND O_Ucs2_Dispatcher AND O_UCS2_Cyrillic
C118	IF A.1/15 AND A.1/26 THEN M ELSE N/A	-- O_Ucs2_Dispatcher 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_FDN
C126	IF A.1/24 THEN M ELSE N/A	-- O_BDN
C127	IF C121 AND A.1/31 THEN M ELSE N/A	-- O_BIP_GPRS AND O_UDP AND O_BUFFER_SIZE
C128	IF C121 AND (NOT A.1/32) THEN M ELSE N/A	-- O_BIP_GPRS AND O_UDP AND (NOT O_DTM)
C129	IF A.1/33 THEN test x.A M ELSE test x.B M	-- O_longFTN
C130	IF (C121 AND A.1/34) THEN test x.A M ELSE IF (C121 AND NOT A.1/34) test x.B M ELSE N/A	-- (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)
C131	IF A.1/36 THEN M ELSE N/A	-- O_UC_Before_EnvCC
C132	IF A.1/37 THEN M ELSE N/A	-- O_UC_After_EnvCC
C133	IF A.1/38 THEN M ELSE N/A	-- O_Serv_SS_HOLD
C134	IF A.1/6 THEN O.2 ELSE N/A	-- O_Icons
C135	IF A.1/6 THEN O.4 ELSE N/A	-- O_Icons
C136	IF C110 AND A.1/6 THEN O.2 ELSE N/A	-- O_Run_At AND O_+CIMI AND O_Icons
C137	IF A.1/42 AND A.1/43 THEN M ELSE N/A	-- O_AddInfo_SS AND O_Serv_SS_CFU
C138	IF A.1/42 AND A.1/44 THEN M ELSE N/A	-- O_AddInfo_SS AND O_Serv_SS_CLIR
C139	IF A.1/45 THEN M ELSE N/A	-- O_No_Type_ND
C140	IF A.1/46 THEN M ELSE N/A	-- O_No_Type_NK
C141	IF A.1/47 THEN M ELSE N/A	-- O_No_Type_NA

C142	IF A.1/48 THEN M ELSE N/A	-- O_No_Type_NS
C143	IF A.1/49 THEN M ELSE N/A	-- O_No_Type_NL
C144	IF A.1/6 AND A.1/71 THEN M ELSE N/A	-- O_Icons AND O_Icon_Rec1_Send_SS
C145	IF A.1/6 AND A.1/75 THEN M ELSE N/A	-- O_Icons AND O_Icon_Rec2_Send_USSD
C146	IF A.1/6 AND A.1/74 THEN M ELSE N/A	-- O_Icons AND O_Icon_Rec1_Send_USSD
C147	IF A.1/6 AND A.1/80 THEN M ELSE N/A	-- O_Icons AND O_Icon_Rec1_Set_Up_Idle_Mode_Text
C148	IF C110 AND A.1/6 AND A.1/83 THEN M ELSE N/A	-- O_Run_At AND O_+CIMI AND O_Icons AND O_Icon_Rec1_Run_AT_Cmd
C149	IF (A.1/10 OR (E.1/71 AND E.1/42)) THEN M ELSE N/A	-- O_LB
C150	IF A.1/92 THEN M ELSE N/A	-- O_Select_Item_Default_Item
O.1	IF A.1/zz tests x.yA M ELSE tests x.yB M (where zz corresponds to the option relating to the command being tested (e.g. A.1/50 if Display Text supports icons as defined in record 1 of EF(IMG)) and x.y is the expected sequence number value)	
O.2	IF A.1/zz tests x.yA M ELSE tests x.yB M (where zz corresponds to the option relating to the command being tested (e.g. A.1/51 if Display Text supports icons as defined in record 2 of EF(IMG)) and x.y is the expected sequence number value)	
O.3	void	
O.4	IF A.1/zz AND A.1/ww tests x.yA M ELSE tests x.yB M (where zz and ww correspond to the options relating to the command being tested (e.g. A.1/50 if Display Text supports icons as defined in record 1 of EF(IMG) and A.1.52 if Display Text supports icons as defined in record 5 of EF(IMG) ) and x.y is the expected sequence number value)	
AER001	IF (A.1/35) THEN R ELSE A	-- O_SAT_USAT
AER002	IF (A.1/35) THEN R ELSE A	-- O_SAT_USAT
TCEP001	IF NOT A.1/45 THEN 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	IF NOT A.1/46 THEN the terminal may open the channel without explicit confirmation by the user.	

### 3.5 Conventions for mathematical notations

The conventions for mathematical notations specified in TS 51.010-1 [12] clause 3.4 shall apply, unless otherwise specified in the present clause.

### 3.6 Conventions on electrical terms

The conventions on electrical terms specified in TS 51.010-1 [12] clause 3.5 shall apply, unless otherwise specified in the present clause.

### 3.7 Terms on test conditions

The terms on test conditions specified in TS 51.010-1 [12] clause 3.6 shall apply, unless otherwise specified in the present clause.

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## 4 Test equipment

The test equipment is specified in TS 51.010-1 [12] clause 4.

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## 5 Testing methodology in general

### 5.1 Testing of optional functions and procedures

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

### 5.2 Test interfaces and facilities

The test interfaces and facilities specified in TS 51.010-1 [12] clause 5.2 shall apply, unless otherwise specified in the present clause.

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

### 5.3 Different protocol layers

The different protocol layers specified in TS 51.010-1 [12] clause 5.3 shall apply, unless otherwise specified in the present clause.

### 5.4 Information to be provided by the apparatus supplier

The information to be provided by the apparatus supplier specified in TS 51.010-1 [12] clause 5.4 shall apply, unless otherwise specified in the present clause.

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

**Table A.2: ME's default configuration**

<b>Item</b>	<b>Description</b>	<b>Value</b>	<b>Status</b>
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	Preferred buffer size supported by the terminal for Open Channel command		C
6	Channel Id		C

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

## 5.5 Definitions of transmit and receive times

The definitions of transmit and receive times specified in TS 51.010-1 [12] clause 5.5 shall apply, unless otherwise specified in the present clause.

## 6 Reference test methods

The reference test methods specified in TS 51.010-1 [12] clause 6 shall apply, unless otherwise specified.

## 7 Implicit testing

For some GSM 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 3v and 5v operation.

Some SIM 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.

## 8 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".

## 9 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**

---

## 10 Generic call set up procedures

The generic call set up procedure specified in TS 51.010-1 [12] clause 10 shall apply, unless otherwise specified in the present clause.

---

## 11 - 26 Not used

---

## 27 Testing of the SIM/ME interface

This clause is an addition to TS 51.010-1 [12] clause 27 to confirm the correct interpretation of the SIM Application Toolkit commands and the correct operation of the Toolkit facilities.

The definitions, declarations and default values specified in TS 51.010-1 [12] clause 27 shall apply, unless otherwise specified in the present clause.

Note: As defined in TS 51.010-1 [12] clause 27 the term PCS 1900 defines the tests applicable for GSM 700, GSM 850 and PCS 1900 MS.

A SIM Simulator with the appropriate SIM Application Toolkit functionality will be required. The SIM 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 11.14 [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 11.14 [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 TLV in the Terminal Responses shall be ignored.

## 27.1 - 27.21 Void

## 27.22 SIM Application Toolkit

### 27.22.1A General Test purpose

Testing of functional conformance to SIM Application Toolkit commands, including pro-active SIM 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 SIM 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 SIM command.

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

### 27.22.2A Definition of default values for SIM Application Toolkit testing

A SIM 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 SIM follow, as defined in:

- TS 51.010-1 [12], clause 27.

**Note 1:** Bx represents byte x of the coding.

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

EFSST (SIM Service Table)

Logically:

(Service 2)	Abbreviated Dialling Numbers allocated and activated
(Service 3)	Fixed Dialling Numbers allocated and activated
(Service 10)	Extension 1 allocated and activated
(Service 11)	Extension 2 allocated and activated
(Service 12)	SMS Parameters allocated and activated
(Service 14)	Cell Broadcast Message Identifier allocated and activated
(Service 25)	Data download via SMS-CB allocated and activated
(Service 26)	Data download via SMS-PP allocated and activated
(Service 27)	Menu selection allocated and activated
(Service 28)	Call control allocated and not activated
(Service 29)	Proactive SIM allocated and activated
(Service 30)	Cell Broadcast Message Identifier Ranges allocated and activated
(Service 31)	Barred Dialling Numbers allocated and not activated
(Service 32)	Extension4 allocated and activated
(Service 37)	Mobile Originated Short Message control by SIM allocated and not activated
(Service 39)	Image (IMG) allocated and activated
(Service 41)	USSD string data object supported in Call Control allocated and activated
(Service 42)	RUN AT COMMAND command allocated and activated
(Service 48)	Extended Capability Configuration Parameters allocated and activated

Coding:	B1	B2	B3	B4
---------	----	----	----	----

	xx1111xx	xxxxxxxx	111111xx	xxxx11xx
	B5 xxxxxxxx	B6 xxxxxxxx	B7 01111111	B8 11011111
	B9 xxxxxxxx	B10 xx11xx01	B11 xxxx1111	B12 11xxxxxx

EF<sub>Phase</sub> (SIM Phase Identification)

Logically: Phase 2+

Coding:	'03'
---------	------

EF<sub>IMSI</sub> (International Mobile Subscriber Identity)

Logically:

Length: 8 bytes  
 IMSI: 001 01 0123456789

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

EF<sub>CBMI</sub> (Cell Broadcast Message Identifier)

Logically:

Cell Broadcast Message Identifier 1: '03 E7'

Coding:	03	E7	FF	..	FF						
---------	----	----	----	----	----	--	--	--	--	--	--

EF<sub>CBMID</sub> (Cell Broadcast Message Identifier for Data Download)

Logically:

Cell Broadcast Message Identifier 1: '10 01'

Coding:	10	01	FF	..	FF						
---------	----	----	----	----	----	--	--	--	--	--	--

EF<sub>FDN</sub> (Fixed Dialling Numbers)

Logically:

At least 10 records

Record 1:  
 Length of alpha identifier: 32 characters  
 Alpha identifier: "ABC"  
 Length of BCD number: "03"  
 TON and NPI: Telephony and Unknown  
 Dialled number: 123  
 CCI: None  
 Ext2: None

Coding:	B1	B2	B3	B4	...	B32	B33	B34	B35	B36	B37	...	B46
Record 1:	41	42	43	FF	...	FF	03	81	21	F3	FF	...	FF

Record 2:

Length of alpha identifier: 32 characters  
 Alpha identifier: "DEF"  
 Length of BCD number: "04"  
 TON and NPI: Telephony and Unknown  
 Dialled number: 9876  
 CCI: None  
 Ext2: None

Coding:	B1	B2	B3	B4	...	B32	B33	B34	B35	B36	B37	...	B46
Record 1:	44	45	46	FF	...	FF	03	81	89	67	FF	...	FF

EF<sub>BDN</sub> (Barred Dialling Numbers)

Logically:

At least 10 records

Record 1:

Length of alpha identifier: 32 characters  
 Alpha identifier: "CBA"  
 Length of BCD number: "03"  
 TON and NPI: Telephony and Unknown  
 Dialled number: 321  
 CCI: None  
 Ext4: None  
 Comprehension Method Info: None

Coding:	B1	B2	B3	B4	...	B32	B33	B34	B35	B36	B37	...	B47
Record 1:	43	42	41	FF	...	FF	03	81	23	F1	FF	...	FF

Note: EF<sub>BDN</sub> shall be invalidated unless otherwise stated, i.e. by indicating that Barred Dialling Numbers service is enabled.

EF<sub>ECC</sub> (Emergency Call Codes)

Logically:

Emergency Call Code 1: '1020'

Coding:			01		02		FF					
---------	--	--	----	--	----	--	----	--	--	--	--	--

Emergency Call Code 2: '112'

Coding:			11		F2		FF					
---------	--	--	----	--	----	--	----	--	--	--	--	--

EF<sub>SMS</sub> (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:

- Under the DF Telecom: creation of DF Graphics (5F50);
- Under the DF 5F50: creation of EF<sub>Img</sub> (4F20, linear fixed file) and EF<sub>Instance</sub> (4FXX, transparent file).

#### EF<sub>Img</sub> (Image, 4F20)

Record 1:

Logically:

Number of Actual Images Instances: 01  
 Image Instance Width: 08  
 Image Instance Height: 08  
 Image Coding Scheme: 11 (basic image)  
 Image Instance File Identifier: 4F 04 (EF<sub>Instance</sub>)  
 Offset into Image Instance File: 00 00  
 Length of Image Instance Data: 00 0A

Coding:

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

Record 2:

Logically:

Number of Actual Images Instances: 01  
 Image Instance Width: 08  
 Image Instance Height: 08  
 Image Coding Scheme: 21 (colour image)  
 Image Instance File Identifier: 4F 02(EF<sub>Instance</sub>)  
 Offset into Image Instance File: 00 00  
 Length of Image Instance Data: 00 16

Coding:

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

Record 3:

Logically:

Number of Actual Images Instances: 01  
 Image Instance Width: 18  
 Image Instance Height: 10  
 Image Coding Scheme: 11 (basic image)  
 Image Instance File Identifier: 4F 03 (EF<sub>Instance</sub>)  
 Offset into Image Instance File: 00 00  
 Length of Image Instance Data: 00 32

Coding:

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

Record 4:

Logically:

Number of Actual Images Instances: 01  
 Image Instance Width: 2E  
 Image Instance Height: 28  
 Image Coding Scheme: 11 (basic image)  
 Image Instance File Identifier: 4F 01 (EF<sub>Instance</sub>)  
 Offset into Image Instance File: 00 00  
 Length of Image Instance Data: 00 E8

Coding:

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

Record 5:

Logically:

Number of Actual Images Instances: 01  
 Image Instance Width: 05  
 Image Instance Height: 05  
 Image Coding Scheme: 11 (basic image)  
 Image Instance File Identifier: 4F 05 (EF<sub>Instance</sub>)  
 Offset into Image Instance File: 00 00  
 Length of Image Instance Data: 00 08

Coding:

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

**EF<sub>Instance</sub> (4F01)**

Logically:

Image Instance Data: see below

Coding:

Coding:	2E	28	00	00	00	00	00	00	00	01	FF	80

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

**EF<sub>Instance</sub> (4F02)**

Logically:

Image Instance Data:

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

Coding:

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

**EF<sub>Instance</sub> (4F03)**

Logically:

Image Instance Data:

see below

Coding:

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

#### **EF<sub>Instance</sub> (4F04)**

Logically:

Image Instance Data: see below

Coding:

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

#### **EF<sub>Instance</sub> (4F05)**

Logically:

Image Instance Data: see below

Coding:

Coding:	05	05	FE	EB	BF	FF	FF	FF
---------	----	----	----	----	----	----	----	----

### 27.22.1 Initialization of SIM Application Toolkit Enabled SIM by SIM 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 11.14 [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 SIM Simulator. All elementary files are coded as the default Toolkit personalization, with the CHV1 enabled.

## 27.22.1.4.2 Procedure

**Expected Sequence 1 (PROFILE DOWNLOAD)**

<b>Step</b>	<b>Direction</b>	<b>Message / Action</b>	<b>Comments</b>
1	USER → ME	Power on ME	
2	ME → USER	PIN entry request	
3	USER → ME	Enter "1111"	
...			
4	ME → SIM	VERIFY CHV1 1.1A	[CHV1 code: "1111"]
5	SIM → ME	VERIFY CHV ATTEMPT UNSUCCESSFUL 1.1A	
...			
6	ME → USER	PIN entry request	
7	USER → ME	Enter "1234"	
8	ME → SIM	VERIFY CHV1 1.1B	[CHV1 code: "1234"]
9	SIM → ME	NORMAL ENDING OF COMMAND 1.1A	
10	ME → SIM	TERMINAL PROFILE 1.4	The ME shall have read EF PHASE prior to the Profile Download
11	SIM → ME	NORMAL ENDING OF COMMAND 1.1A	
12	ME → SIM	SELECT EF IMSI 1.5 or SELECT EF LOCI 1.6	

**VERIFY CHV1 : 1.1A**

Logically:

Coding:

APDU:	CLA=A0	INS=20	P1=00	P2=01	P3=08
DATA IN:	31	31	31	31	FF

**VERIFY CHV1 ATTEMPT UNSUCCESSFUL: 1.1A**

Logically:

Coding:

SW1=98	SW2=04
--------	--------

**VERIFY CHV1: 1.1B**

Logically:

Coding:

APDU:	CLA=A0	INS=20	P1=00	P2=01	P3=08
DATA IN:	31	32	33	34	FF

**NORMAL ENDING OF COMMAND: 1.1A**

Logically:

Coding:

SW1=90	SW2=00
--------	--------

**TERMINAL PROFILE: 1.4**

Logically:

Coding:

APDU:	CLA=A0	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 SIM Toolkit commands supported by the ME, and with YY, ZZ, ... representing here the bytes of the TERMINAL PROFILE data, as specified in TS 11.14 [15], clause 5.2.

**SELECT EF IMSI: 1.5**

Logically:

Coding:

APDU:	CLA=A0	INS=A4	P1=00	P2=00	P3=02
DATA IN:	6F	07			

**SELECT EF LOCI: 1.6**

Logically:

Coding:

APDU:	CLA=A0	INS=A4	P1=00	P2=00	P3=02
DATA IN:	6F	7E			

**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.

**27.22.2.2 Conformance requirement**

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

- TS 11.14 [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 SIM 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 SIM Simulator. All elementary files are coded as the default SIM Application Toolkit personalization.

#### 27.22.2.4.2 Procedure

- a) The ME is powered on.
- b) After the ME sends the TERMINAL PROFILE command to the SIM Simulator, the SIM Simulator shall record the content of the TERMINAL PROFILE.
- c) The SIM 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 SIM Simulator.

### 27.22.2.5 Test requirement

- 1) After step a) the ME shall send the TERMINAL PROFILE command to the SIM Simulator with bit 1 of the first byte set to 1 (facility supported by ME).
- 2) In table E.1 for the corresponding ME Sim Toolkit Release and Options, The TERMINAL PROFILE information "support" recorded must be in accordance with the "Status" column. Support of features defined only in releases later than present release shall be ignored.

## 27.22.3 Servicing of proactive SIM commands

### 27.22.3.1 Definition and applicability

See clause 3.2.2.

### 27.22.3.2 Conformance requirement

On detection of a pending SIM Application Toolkit command from the SIM the ME shall perform the FETCH command to retrieve the proactive SIM command. The result of the executed command shall be transmitted from the ME to the SIM 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 SIM Application Toolkit facility.

- TS 11.14 [15] clause 6.3.

### 27.22.3.3 Test purpose

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

To verify that the ME transmits the result of execution of the proactive SIM command to the SIM 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 SIM Simulator.

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

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

The SIM Simulator is configured to monitor the SIM - 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 SIM Simulator indicates that a Proactive SIM Command is pending with SW1 / SW2 of '91 0B'.
- c) After the ME sends the FETCH command to the SIM Simulator, the SIM Simulator returns Proactive SIM Command 2.1: MORE TIME.

### 27.22.3.5 Test requirement

- 1) After step b) the ME shall send the FETCH command to the SIM.
- 2) After step c) the ME shall send the TERMINAL REONSE command with command number "01", type of command "02" and command qualifier "00".

## 27.22.4 Proactive SIM 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 11.14 [15], clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.31.

##### 27.22.4.1.1.3 Test purpose

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

## 27.22.4.1.1.4 Method of test

## 27.22.4.1.1.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM 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)**

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

## PROACTIVE COMMAND: DISPLAY TEXT 1.1.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Display

## Text String

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

Coding:

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

## TERMINAL RESPONSE: DISPLAY TEXT 1.1.1

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

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

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

PROACTIVE COMMAND: DISPLAY TEXT 1.2.1: same as 1.1.1

TERMINAL RESPONSE: DISPLAY TEXT 1.2.1

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Coding:

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

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

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

PROACTIVE COMMAND: DISPLAY TEXT 1.3.1

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Display

Text String

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

Coding:

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

TERMINAL RESPONSE: DISPLAY TEXT 1.3.1

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

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

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

PROACTIVE COMMAND: DISPLAY TEXT 1.4.1

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Display

Text string

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

Coding:

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

TERMINAL RESPONSE: DISPLAY TEXT 1.4.1

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

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

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

PROACTIVE COMMAND: DISPLAY TEXT 1.5.1

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Display

Text string

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

Coding:

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

TERMINAL RESPONSE: DISPLAY TEXT 1.5.1

Logically:

Command details

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

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

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

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

PROACTIVE COMMAND: DISPLAY TEXT 1.6.1

Logically:

Command details

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

Device identities

Source device: SIM  
Destination device: Display

Text String

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

Coding:

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

#### TERMINAL RESPONSE: DISPLAY TEXT 1.6.1

Logically:

##### Command details

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

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00
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#### Expected Sequence 1.7 (DISPLAY TEXT, Backward move in SIM session, successful)

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

#### PROACTIVE COMMAND: DISPLAY TEXT 1.7.1

Logically:

##### Command details

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

##### Device identities

Source device: SIM  
 Destination device: Display

Text string

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

Coding:

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

TERMINAL RESPONSE: DISPLAY TEXT 1.7.1

Logically:

Command details  
 Command number: 1  
 Command type: DISPLAY TEXT  
 Command qualifier: normal priority, wait for user to clear message  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Backward move in the proactive SIM session requested by the user

Coding:

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

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

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

PROACTIVE COMMAND: DISPLAY TEXT 1.8.1

Logically:

Command details  
 Command number: 1  
 Command type: DISPLAY TEXT  
 Command qualifier: normal priority, wait for user to clear message  
 Device identities  
 Source device: SIM  
 Destination device: Display  
 Text string  
 Data coding scheme: unpacked, 8 bit data  
 Text: "<ABORT>"

Coding:

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

## TERMINAL RESPONSE: DISPLAY TEXT 1.8.1

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Proactive SIM session terminated by the user

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	10
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**Expected Sequence 1.9 (DISPLAY TEXT, icon and text to be displayed, no text string given, not understood by ME)**

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

## PROACTIVE COMMAND: DISPLAY TEXT 1.9.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Display

## Text string

Contents: null data object

## Icon Identifier:

Icon qualifier: icon is self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

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

## TERMINAL RESPONSE: DISPLAY TEXT 1.9.1

Logically:

## Command details

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

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	32
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#### 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 11.14 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2 and clause 12.15.3.

##### 27.22.4.1.2.3 Test purpose

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

##### 27.22.4.1.2.4 Method of test

###### 27.22.4.1.2.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM 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.

The SIM simulator shall be set to that period of time.

## 27.22.4.1.2.4.2 Procedure

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

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

## PROACTIVE COMMAND: DISPLAY TEXT 2.1.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Display

## Text string

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

Coding:

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

## TERMINAL RESPONSE: DISPLAY TEXT 2.1.1

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: No response from user

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	12
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## 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 11.14 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2 and clause 12.15.3.

## 27.22.4.1.3.3 Test purpose

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

## 27.22.4.1.3.4 Method of test

## 27.22.4.1.3.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM 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)**

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

## PROACTIVE COMMAND: DISPLAY TEXT 3.1.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Display

## Text String

Data coding scheme: unpacked, 8 bit data

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

Coding:

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

### TERMINAL RESPONSE: DISPLAY TEXT 3.1.1

Logically:

#### Command details

Command number: 1

Command type: DISPLAY TEXT

Command qualifier: normal priority, wait for user to clear message

#### Device identities

Source device: ME

Destination device: SIM

#### Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00
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### 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 11.14 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.43.

#### 27.22.4.1.4.3 Test purpose

To verify that the ME displays the text contained in the DISPLAY TEXT proactive SIM command, returns a successful result in the TERMINAL RESPONSE command send to the SIM 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 SIM Simulator and only connected to the System Simulator if the System Simulator is mentioned in the sequence table. The elementary files are coded as SIM 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)**

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

##### PROACTIVE COMMAND: DISPLAY TEXT 4.1.1

Logically:

###### Command details

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

###### Device identities

Source device: SIM  
 Destination device: Display

###### Text String

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

###### Immediate Response

Coding:

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

##### TERMINAL RESPONSE: DISPLAY TEXT 4.1.1

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00
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**Expected Sequence 4.2 (DISPLAY TEXT, sustained text, clear message after delay, successful)**

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

**PROACTIVE COMMAND: DISPLAY TEXT 4.2.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Display

Text String

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

Immediate Response

Coding:

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

**TERMINAL RESPONSE: DISPLAY TEXT 4.2.1**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	00	82	02	82	81	83	01	00
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#### Expected Sequence 4.3 (DISPLAY TEXT, sustained text, wait for user MMI to clear, successful)

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

#### PROACTIVE COMMAND: DISPLAY TEXT 4.3.1

Logically:

Command details  
 Command number: 1  
 Command type: DISPLAY TEXT  
 Command qualifier: normal priority, wait for user to clear message  
 Device identities  
 Source device: SIM  
 Destination device: Display  
 Text String  
 Data coding scheme: unpacked, 8 bit data  
 Text: "Toolkit Test 3"  
 Immediate Response

Coding:

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

#### TERMINAL RESPONSE: DISPLAY TEXT 4.3.1

Logically:

Command details  
 Command number: 1  
 Command type: DISPLAY TEXT  
 Command qualifier: normal priority, wait for user to clear message  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

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

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

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

#### 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 11.14 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.31.

## 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 SIM command, and returns a successful result in the TERMINAL RESPONSE command send to the SIM.

## 27.22.4.1.5.4 Method of test

## 27.22.4.1.5.4.1 Initial conditions

The ME is connected to the SIM 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)**

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

## PROACTIVE COMMAND: DISPLAY TEXT 5.1.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Display

## Text String

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

## Icon Identifier:

Icon qualifier: icon is self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

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

TERMINAL RESPONSE: DISPLAY TEXT 5.1.1A

Logically:

Command details  
 Command number: 1  
 Command type: DISPLAY TEXT  
 Command qualifier: normal priority, wait for user to clear message  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

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

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

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

TERMINAL RESPONSE: DISPLAY TEXT 5.1.1B

Logically:

Command details  
 Command number: 1  
 Command type: DISPLAY TEXT  
 Command qualifier: normal priority, wait for user to clear message  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully, but requested icon could not be displayed

Coding:

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

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

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

PROACTIVE COMMAND: DISPLAY TEXT 5.2.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Display

## Text String

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

## Icon Identifier:

Icon qualifier: icon is self-explanatory  
 Icon Identifier: record 2 in EF<sub>(IMG)</sub>

Coding:

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

TERMINAL RESPONSE: DISPLAY TEXT 5.2.1A

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

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

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

TERMINAL RESPONSE: DISPLAY TEXT 5.2.1B

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

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

Coding:

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

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

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

PROACTIVE COMMAND: DISPLAY TEXT 5.3.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Display

## Text String

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

Icon Identifier:

Icon qualifier: icon is not self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

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

TERMINAL RESPONSE: DISPLAY TEXT 5.3.1A

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

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

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

TERMINAL RESPONSE: DISPLAY TEXT 5.3.1B

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Coding:

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

##### 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 11.14 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.31.

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 SIM command, and returns a successful result in the TERMINAL RESPONSE command send to the SIM.

##### 27.22.4.1.6.4 Method of test

###### 27.22.4.1.6.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM 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)

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

PROACTIVE COMMAND: DISPLAY TEXT 6.1.1

Logically:

Command details

Command number: 1  
 Command type: DISPLAY TEXT  
 Command qualifier: normal priority, wait for user to clear message  
 Device identities  
   Source device: SIM  
   Destination device: Display  
 Text String  
   Data coding scheme: UCS2 (16bit)  
   Text: "ЗДРАВСТВУЙТЕ"

Coding:

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

TERMINAL RESPONSE: DISPLAY TEXT 6.1.1

Logically:

Command details  
 Command number: 1  
 Command type: DISPLAY TEXT  
 Command qualifier: normal priority, wait for user to clear message  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00
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#### 27.22.4.1.6.5 Test requirement

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

### 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 11.14 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2 and clause 12.15.3.

##### 27.22.4.2.1.3 Test purpose

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

## 27.22.4.2.1.4 Method of test

## 27.22.4.2.1.4.1 Initial conditions

The ME is connected to the SIM 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)**

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

PROACTIVE COMMAND: GET INKEY 1.1.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

Coding:

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

TERMINAL RESPONSE: GET INKEY 1.1.1

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text String

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

Coding:

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

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INKEY 1.2.1	[digits only, no help info available]
4	ME → USER	Display "Enter "0""	
5	USER → ME	Enter the input "0" and completion	Text string coding in packed format
6	ME → SIM	<b>TERMINAL RESPONSE:</b> GET INKEY 1.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INKEY 1.2.1

Logically:

Command details  
 Command number: 1  
 Command type: GET INKEY  
 Command qualifier: digits (0-9, \*, # and +) only, no help information available  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Text String  
 Data coding scheme: SMS default alphabet  
 Text: "Enter "0""

Coding:

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

TERMINAL RESPONSE: GET INKEY 1.2.1

Logically:

Command details  
 Command number: 1  
 Command type: GET INKEY  
 Command qualifier: digits (0-9, \*, # and +) only, no help information available  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Text String  
 Data coding scheme: unpacked, 8 bit data  
 Text: "0"

Coding:

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

### Expected Sequence 1.3 (GET INKEY, backward move)

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

PROACTIVE COMMAND: GET INKEY 1.3.1

Logically:

#### Command details

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

#### Device identities

Source device: SIM  
 Destination device: ME

#### Text String

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

Coding:

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

TERMINAL RESPONSE: GET INKEY 1.3.1

Logically:

#### Command details

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

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

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

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	11
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**Expected Sequence 1.4 (GET INKEY, abort)**

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

PROACTIVE COMMAND: GET INKEY 1.4.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

Coding:

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

TERMINAL RESPONSE: GET INKEY 1.4.1

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Proactive SIM session terminated by the user

Coding:

BER-TLV:	81	03	01	22	00	82	02	82	81	83	01	10
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**Expected Sequence 1.5 (GET INKEY, SMS default alphabet for character set, Unpacked 8 bit data for Text String, successful)**

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

**PROACTIVE COMMAND: GET INKEY 1.5.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Text String

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

Coding:

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

**TERMINAL RESPONSE: GET INKEY 1.5.1**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Text String

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

Coding:

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

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

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

PROACTIVE COMMAND: GET INKEY 1.6.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

Coding:

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

TERMINAL RESPONSE: GET INKEY 1.6.1

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

**Result**

General Result: Command performed successfully

**Text String**

Data coding scheme: unpacked, 8 bit data

Text: "x"

**Coding:**

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

**27.22.4.2.1.5 Test requirement**

The 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 11.14 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2 and clause 12.15.3.

**27.22.4.2.2.3 Test purpose**

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

**27.22.4.2.2.4 Method of test****27.22.4.2.2.4.1 Initial conditions**

The ME is connected to the SIM 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.

The SIM simulator shall be set to that period of time.

## 27.22.4.2.2.4.2 Procedure

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

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

## PROACTIVE COMMAND: GET INKEY 2.1.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

Coding:

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

## TERMINAL RESPONSE: GET INKEY 2.1.1

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: No response from user

Coding:

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

## 27.22.4.2.2.5 Test requirement

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

### 27.22.4.2.3 GET INKEY (UCS2 format display)

#### 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 11.14 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2 and clause 12.15.3.

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 SIM command, and returns the text string entered in the TERMINAL RESPONSE command sent to the SIM.

#### 27.22.4.2.3.4 Method of test

##### 27.22.4.2.3.4.1 Initial conditions

The ME is connected to the SIM 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, successful)

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

#### PROACTIVE COMMAND: GET INKEY 3.1.1

Logically:

##### Command details

Command number: 1

Command type: GET INKEY

Command qualifier: digits (0-9, \*, # and +) only, no help information available

##### Device identities

Source device: SIM

Destination device: ME

##### Text String

Data coding scheme: 16 bit data UCS2 alphabet format

Text: "ЗДРАВСТВУЙТЕ"

Coding:

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

TERMINAL RESPONSE: GET INKEY 3.1.1

Logically:

Command details

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

Device identities

Source device:	ME
Destination device:	SIM

Result

General Result:	Command performed successfully
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Text String:

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

Coding:

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

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

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

PROACTIVE COMMAND: GET INKEY 3.2.1

Logically:

Command details

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

Device identities

Source device:	SIM
Destination device:	ME

Text String

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

ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ  
ЗДРАВСТВУЙТЕЗДРАВСТВУЙ"

Coding:

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

TERMINAL RESPONSE: GET INKEY 3.2.1

Logically:

#### Command details

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

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

General Result: Command performed successfully

#### Text String:

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

Coding:

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

#### 27.22.4.2.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1 to 3.2.

#### 27.22.4.2.4 GET INKEY (UCS2 format of entry)

##### 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 11.14 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2 and clause 12.15.3.

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 SIM command, and returns the text string entered in the TERMINAL RESPONSE command sent to the SIM.

## 27.22.4.2.4.4 Method of test

## 27.22.4.2.4.4.1 Initial conditions

The ME is connected to the SIM 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, successful)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 4.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INKEY 4.1.1	[characters from UCS2 alphabet, no help information available]
4	ME → USER	Display "Enter"	Text string coding in unpacked format
5	USER → ME	Enter the input "Д" and completion	Russian character, coding in UCS2 format
6	ME → SIM	TERMINAL RESPONSE: GET INKEY 4.1.1	[command performed successfully]

## PROACTIVE COMMAND: GET INKEY 4.1.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

Coding:

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

## TERMINAL RESPONSE: GET INKEY 4.1.1

Logically:

## Command details

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

## Device identities

Source device: ME

Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Text String:  
 Data coding scheme: 16 bit data UCS2 alphabet format  
 Text: "Д"

Coding:

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

#### 27.22.4.2.4.5 Test requirement

The 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 11.14 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2 and clause 12.15.3.

##### 27.22.4.2.5.3 Test purpose

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

##### 27.22.4.2.5.4 Method of test

###### 27.22.4.2.5.4.1 Initial conditions

The ME is connected to the SIM 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)

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

## PROACTIVE COMMAND: GET INKEY 5.1.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

Coding:

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

## TERMINAL RESPONSE: GET INKEY 5.1.1

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text String:

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

Coding:

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

PROACTIVE COMMAND: GET INKEY 5.1.2:

Logically:

Command details  
 Command number: 1  
 Command type: GET INKEY  
 Command qualifier: "Yes/No" Response, no help information available  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Text String  
 Data coding scheme: unpacked, 8 bit data  
 Text: "Enter NO"

Coding:

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

TERMINAL RESPONSE: GET INKEY 5.1.2

Logically:

Command details  
 Command number: 1  
 Command type: GET INKEY  
 Command qualifier: "Yes/No" Response, no help information available  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Text String:  
 Data coding scheme: unpacked, 8 bit data  
 Text: 00 (hex)

Coding:

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

#### 27.22.4.2.5.5 Test requirement

The 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 11.14 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.31.

#### 27.22.4.2.6.3 Test purpose

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

#### 27.22.4.2.6.4 Method of test

##### 27.22.4.2.6.4.1 Initial conditions

The ME is connected to the SIM 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)

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

#### PROACTIVE COMMAND: GET INKEY 6.1.1

Logically:

##### Command details

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

##### Device identities

Source device: SIM  
 Destination device: ME

##### Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "<NO-ICON>"

##### Icon Identifier

Icon qualifier: self-explanatory  
 Icon identifier: 1 (number of record in EF<sub>Img</sub>)

Coding:

BER-TLV:	D0	19	81	03	01	22	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	1E
	02	00	01									

#### TERMINAL RESPONSE: GET INKEY 6.1.1A

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text String

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

Coding:

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

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INKEY 6.1.1	[BASIC-ICON self-explanatory for the Text string]
4	ME → USER	Display "<NO-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter "+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INKEY 6.1.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INKEY 6.1.1B

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

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

## Text String:

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

Coding:

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

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

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INKEY 6.2.1	[BASIC-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<BASIC-ICON>" and Display the BASIC-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INKEY 6.2.1A	[Command performed successfully]

**PROACTIVE COMMAND: GET INKEY 6.2.1**

Logically:

**Command details**

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

**Device identities**

Source device: SIM  
 Destination device: ME

**Text String**

Data coding scheme: unpacked, 8 bit data  
 Text: "<BASIC-ICON>"

**Icon Identifier**

Icon qualifier: not self-explanatory  
 Icon identifier: 1 (number of record in EF<sub>Img</sub>)

Coding:

BER-TLV:	D0	1C	81	03	01	22	00	82	02	81	82	8D
	0D	04	3C	42	41	53	49	43	2D	49	43	4F
	4E	3E	1E	02	01	01						

**TERMINAL RESPONSE: GET INKEY 6.2.1A**

Logically:

**Command details**

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

**Device identities**

Source device: ME  
 Destination device: SIM

**Result**

General Result: Command performed successfully

**Text String:**

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

Coding:

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

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INKEY 6.2.1	[BASIC-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<BASIC-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INKEY 6.2.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INKEY 6.2.1B

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

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

## Text String:

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

Coding:

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

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INKEY 6.3.1	[COLOUR-ICON self-explanatory for the Text string]
4	ME → USER	Display the COLOUR-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INKEY 6.3.1A	[Command performed successfully]

PROACTIVE COMMAND: GET INKEY 6.3.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "<NO-ICON>"  
 Icon Identifier  
 Icon qualifier: self-explanatory  
 Icon identifier: 2 (number of record in EF<sub>Img</sub>)

Coding:

BER-TLV:	D0	19	81	03	01	22	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	1E
	02	00	02									

TERMINAL RESPONSE: GET INKEY 6.3.1A

Logically:

Command details  
 Command number: 1  
 Command type: GET INKEY  
 Command qualifier: digits (0-9, \*, # and +) only, no help information available  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Text String:  
 Data coding scheme: unpacked, 8 bit data  
 Text: "+"

Coding:

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

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INKEY 6.3.1	[COLOUR-ICON self-explanatory for the Text string]
4	ME → USER	Display "<NO-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INKEY 6.3.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INKEY 6.3.1B

Logically:

Command details  
 Command number: 1  
 Command type: GET INKEY  
 Command qualifier: digits (0-9, \*, # and +) only, no help information available  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully but requested icon could not be displayed  
 Text String:

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

Coding:

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

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INKEY 6.4.1	[COLOUR-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<COLOUR-ICON>" and Display the COLOUR-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INKEY 6.4.1A	[Command performed successfully]

#### PROACTIVE COMMAND: GET INKEY 6.4.1

Logically:

##### Command details

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

##### Device identities

Source device: SIM  
 Destination device: ME

##### Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "<COLOUR-ICON>"

##### Icon Identifier

Icon qualifier: not self-explanatory  
 Icon identifier: 2 (number of record in EF<sub>Img</sub>)

Coding:

BER-TLV:	D0	1D	81	03	01	22	00	82	02	81	82	8D
	0E	04	3C	43	4F	4C	4F	55	52	2D	49	43
	4F	4E	3E	1E	02	01	02					

#### TERMINAL RESPONSE: GET INKEY 6.4.1A

Logically:

##### Command details

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

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Command performed successfully

##### Text String:

Data coding scheme: unpacked, 8 bit data

Text: "+"

Coding:

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

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 6.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INKEY 6.4.1	[COLOUR-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<COLOUR-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INKEY 6.4.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INKEY 6.4.1B

Logically:

##### Command details

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

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

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

##### Text String:

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

Coding:

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

#### 27.22.4.2.6.5 Test requirement

The 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 11.14 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.31.

## 27.22.4.2.7.3 Test purpose

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

## 27.22.4.2.7.4 Method of test

## 27.22.4.2.7.4.1 Initial conditions

The ME is connected to the SIM 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 7.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INKEY 7.1.1	[digits only, help information available]
4	ME → USER	Display "Enter "+"	Text string coding in unpacked format
5	USER → ME	Press "help" key	
6	ME → SIM	TERMINAL RESPONSE: GET INKEY 7.1.1	[help info required]
7	SIM → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 7.1.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: DISPLAY TEXT 7.1.1	
10	ME → USER	Display "Help information"	Text string coded in unpacked format
11	USER → ME	Clear Message	
12	ME → SIM	TERMINAL RESPONSE: DISPLAY TEXT 7.1.1	
13	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 7.1.2	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: GET INKEY 7.1.2	[digits only, help information available]
16	ME → USER	Display "Enter "+"	Repetition of get inkey
17	USER → ME	Enter the input "+" and completion	
18	ME → SIM	TERMINAL RESPONSE: GET INKEY 7.1.2	[Command performed successfully]

## PROACTIVE COMMAND: GET INKEY 7.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INKEY  
 Command qualifier: digits (0-9, \*, # and +) only, help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

Coding:

BER-TLV:	D0	15	81	03	01	22	80	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	

TERMINAL RESPONSE: GET INKEY 7.1.1

Logically:

Command details

Command number: 1  
 Command type: GET INKEY  
 Command qualifier: digits (0-9, \*, # and +) only, help information available

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Help information required by the user

Coding:

BER-TLV:	81	03	01	22	80	82	02	82	81	83	01	13
----------	----	----	----	----	----	----	----	----	----	----	----	----

PROACTIVE COMMAND : DISPLAY TEXT 7.1.1

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Display

Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "Help information"

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	11	04	48	65	6C	70	20	69	6E	66	6F	72
	6D	61	74	69	6F	6E						

TERMINAL RESPONSE : DISPLAY TEXT 7.1.1

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

## PROACTIVE COMMAND: GET INKEY 7.1.2

Logically:

## Command details

Command number: 1  
 Command type: GET INKEY  
 Command qualifier: digits (0-9, \*, # and +) only, help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

Coding:

BER-TLV:	D0	15	81	03	01	22	80	82	02	81	82	8D
	0A	04	45	6E	74	65	72	20	22	2B	22	

## TERMINAL RESPONSE: GET INKEY 7.1.2

Logically:

## Command details

Command number: 1  
 Command type: GET INKEY  
 Command qualifier: digits (0-9, \*, # and +) only, help information available

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text String:

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

Coding:

BER-TLV:	81	03	01	22	80	82	02	82	81	83	01	00
	8D	02	04	2B								

## 27.22.4.2.7.5 Test requirement

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

## 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 11.14 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.13.

## 27.22.4.3.1.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive SIM command, and returns the text string entered in the TERMINAL RESPONSE command sent to the SIM.

## 27.22.4.3.1.4 Method of test

## 27.22.4.3.1.4.1 Initial conditions

The ME is connected to the SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.1.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help info available]
4	ME → USER	Display "Enter 12345"	Range of expected length is 5-5 Text string coding in unpacked format
5	USER → ME	Enter the input "12345" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.1.1	[command performed successfully]

## PROACTIVE COMMAND: GET INPUT 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "Enter 12345"

## Response length

Minimum length: 5  
 Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05							

## TERMINAL RESPONSE: GET INPUT 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text string

Data coding scheme: unpacked, 8 bit data  
 Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.2.1	[digits only, SMS default alphabet, ME to echo text, packing required, no help information available]
4	ME → USER	Display "Enter 67*#+"	Range of expected length is 5-5 Text string coding in packed format
5	USER → ME	Enter the input "67*#+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.2.1	[command performed successfully]

## PROACTIVE COMMAND: GET INPUT 1.2.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in packed SMS format, ME to echo text, no help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

Data coding scheme: SMS default alphabet  
 Text: "Enter 67\*#+"

## Response length

Minimum length: 5  
 Maximum length: 5

Coding:

BER-TLV:	D0	1A	81	03	01	23	08	82	02	81	82	8D
	0B	00	45	37	BD	2C	07	D9	6E	AA	D1	0A
	91	02	05	05								

## TERMINAL RESPONSE: GET INPUT 1.2.1

Logically:

Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in packed SMS format, ME to echo text, no help information available

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Text string

Data coding scheme: packed SMS format  
 Text: "67\*#+"

Coding:

BER-TLV:	81	03	01	23	08	82	02	82	81	83	01	00
	8D	06	00	B6	9B	6A	B4	02				

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.3.1	[character set, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter AbCdE"	Range of expected length is 5-5 Text string coding in unpacked format
5	USER → ME	Enter the input "AbCdE" and completion	The ME may echo the input
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.3.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.3.1

Logically:

Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: Character set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

Device identities

Source device: SIM  
 Destination device: ME

Text String

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

Response length

Minimum length: 5  
 Maximum length: 5

Coding:

BER-TLV:	D0	1B	81	03	01	23	01	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	41	62	43	64
	45	91	02	05	05							

## TERMINAL RESPONSE: GET INPUT 1.3.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: Character set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text string

Data coding scheme: unpacked, 8 bit data  
 Text: "AbCdE"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	41	62	43	64	45				

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.4.1	[digits only, SMS default alphabet, ME to hide text, packing not required, no help information available]
4	ME → USER	Display "Password 1<SEND>2345678"	Range of expected length is 4-8 Text string coding in unpacked format
5	USER → ME	Enter the input "2345678" and completion	User's input not to be revealed at any time, optionally indication of key entries such as by displaying "***"
6	ME → USER	Input not revealed	optionally indication of key entries such as by displaying "***"
7	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.4.1	[command performed successfully]

## PROACTIVE COMMAND: GET INPUT 1.4.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to hide text, no help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "Password 1<SEND>2345678"

## Response length

Minimum length: 4  
 Maximum length: 8

Coding:

BER-TLV:	D0	27	81	03	01	23	04	82	02	81	82	8D
	18	04	50	61	73	73	77	6F	72	64	20	31
	3C	53	45	4E	44	3E	32	33	34	35	36	37
	38	91	02	04	08							

TERMINAL RESPONSE: GET INPUT 1.4.1

Logically:

#### Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to hide text, no help information available

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

General Result: Command performed successfully

#### Text string

Data coding scheme: unpacked, 8 bit data  
 Text: "2345678"

Coding:

BER-TLV:	81	03	01	23	04	82	02	82	81	83	01	00
	8D	08	04	32	33	34	35	36	37	38		

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.5.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter 1..9,0..9,0(1)"	Range of expected length is 1-20 Text string coding in unpacked format
5	USER → ME	Completion without input	
6	ME → USER	The ME MMI takes action to manage the entry of correct numbers of characters.	
7	USER → ME	Enter "12345678901234567890" and completion	
8	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.5.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.5.1

Logically:

#### Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

#### Device identities

Source device: SIM

Destination device: ME  
 Text String  
 Data coding scheme: unpacked, 8 bit data  
 Text: "Enter 1..9,0..9,0(1)"  
 Response length  
 Minimum length: 1  
 Maximum length: 20

Coding:

BER-TLV:	D0	24	81	03	01	23	00	82	02	81	82	8D
	15	04	45	6 <sup>E</sup>	74	65	72	20	31	2 <sup>E</sup>	2 <sup>E</sup>	39
	2C	30	2 <sup>E</sup>	2E	39	2C	30	28	31	29	91	02
	01	14										

#### TERMINAL RESPONSE: GET INPUT 1.5.1

Logically:

Command details  
 Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Text string  
 Data coding scheme: unpacked, 8 bit data  
 Text: "12345678901234567890"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	15	04	31	32	33	34	35	36	37	38	39
	30	31	32	33	34	35	36	37	38	39	30	

#### Expected Sequence 1.6 (GET INPUT, backwards move)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.6.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.6.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "<GO-BACKWARDS>"	Range of expected length is 0-8 Text string coding in unpacked format
5	USER → ME	Backwards move MMI action	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.6.1	[backward move in the proactive SIM session requested by the user]

#### PROACTIVE COMMAND: GET INPUT 1.6.1

Logically:

Command details  
 Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text string

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

## Response length

Minimum length: 0  
 Maximum length: 8

Coding:

BER-TLV:	D0	1E	81	03	01	23	00	82	02	81	82	8D
	0F	04	3C	47	4F	2D	42	41	43	4B	57	41
	52	44	53	3E	91	02	00	08				

TERMINAL RESPONSE: GET INPUT 1.6.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: ME  
 Destination device: SIM

## Result

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

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	11

## Expected Sequence 1.7 (GET INPUT, abort)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.7.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.7.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "<ABORT>"	Range if expected length is 0-8 Text string coding in unpacked format
5	USER → ME	Terminate the Proactive SIM session MMI action	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.7.1	[Proactive SIM session terminated by the user]

PROACTIVE COMMAND: GET INPUT 1.7.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: SIM  
 Destination device: ME

Text string

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

Response length

Minimum length: 0  
Maximum length: 8

Coding:

BER-TLV:	D0	17	81	03	01	23	00	82	02	81	82	8D
	08	04	3C	41	42	4F	52	54	3E	91	02	00
	08											

TERMINAL RESPONSE: GET INPUT 1.7.1

Logically:

Command details

Command number: 1  
Command type: GET INPUT  
Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Proactive SIM session terminated by the user

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	10
----------	----	----	----	----	----	----	----	----	----	----	----	----

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.8.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.8.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "***1111111111###***2222222 222###***3333333333###***44 44444444###***5555555555## ###***6666666666###***7777777 777###***8888888888###***99 99999999##***0000000000## #"	Range of length expected is 160-160 Text string coding in unpacked format
5	USER → ME	Enter the input "***1111111111###***2222222 222###***3333333333###***44 44444444###***5555555555## ###***6666666666###***7777777 777###***8888888888###***99 99999999##***0000000000## #"	
6	ME → SIM	and completion TERMINAL RESPONSE: GET INPUT 1.8.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.8.1

Logically:

**Command details**

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

**Device identities**

Source device: SIM  
 Destination device: ME

**Text string**

Data coding scheme: unpacked, 8 bit data  
 Text:  
 "\*\*\*1111111111###\*\*\*2222222222###\*\*\*3333333333###\*\*\*4444444444###\*\*\*  
 5555555555###\*\*\*6666666666###\*\*\*7777777777###\*\*\*8888888888###\*\*\*9999  
 999999###\*\*\*0000000000###"

**Response length**

Minimum length: 160  
 Maximum length: 160

Coding:

BER-TLV:	D0	81	B1	81	03	01	23	00	82	02	81	82
	8D	81	A1	04	2A	2A	2A	31	31	31	31	31
	31	31	31	31	31	23	23	23	2A	2A	2A	32
	32	32	32	32	32	32	32	32	32	23	23	23
	2A	2A	2A	33	33	33	33	33	33	33	33	33
	33	23	23	23	2A	2A	2A	34	34	34	34	34
	34	34	34	34	34	23	23	23	2A	2A	2A	35
	35	35	35	35	35	35	35	35	35	23	23	23
	2A	2A	2A	36	36	36	36	36	36	36	36	36
	36	23	23	23	2A	2A	2A	37	37	37	37	37
	37	37	37	37	37	23	23	23	2A	2A	2A	38
	38	38	38	38	38	38	38	38	38	23	23	23
	2A	2A	2A	39	39	39	39	39	39	39	39	39
	39	23	23	23	2A	2A	2A	30	30	30	30	30
	30	30	30	30	30	23	23	23	91	02	A0	A0

TERMINAL RESPONSE: GET INPUT 1.8.1

Logically:

**Command details**

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

**Device identities**

Source device: ME  
 Destination device: SIM

**Result**

General Result: Command performed successfully

**Text string**

Data coding scheme: unpacked, 8 bit data  
 Text:  
 "\*\*\*1111111111###\*\*\*2222222222###\*\*\*  
 3333333333###\*\*\*4444444444###  
 \*\*\*5555555555###\*\*\*6666666666###  
 \*\*\*7777777777###\*\*\*8888888888###  
 \*\*\*9999999999###\*\*\*0000000000###"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	81	A1	04	2A	2A	2A	31	31	31	31	31
	31	31	31	31	31	23	23	23	2A	2A	2A	32
	32	32	32	32	32	32	32	32	32	23	23	23
	2A	2A	2A	33	33	33	33	33	33	33	33	33
	33	23	23	23	2A	2A	2A	34	34	34	34	34
	34	34	34	34	34	23	23	23	2A	2A	2A	35
	35	35	35	35	35	35	35	35	35	23	23	23
	2A	2A	2A	36	36	36	36	36	36	36	36	36
	36	23	23	23	2A	2A	2A	37	37	37	37	37
	37	37	37	37	37	23	23	23	2A	2A	2A	38
	38	38	38	38	38	38	38	38	38	23	23	23
	2A	2A	2A	39	39	39	39	39	39	39	39	39
	39	23	23	23	2A	2A	2A	30	30	30	30	30
	30	30	30	30	30	23	23	23				

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.9.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.9.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "<SEND>"	Range of expected length is 0-1 Text string coding in unpacked format
5	USER → ME	Completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.9.1A Or TERMINAL RESPONSE: GET INPUT 1.9.1B	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.9.1

Logically:

#### Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

#### Device identities

Source device: SIM  
 Destination device: ME

#### Text string

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

#### Response length

Minimum length: 0  
 Maximum length: 1

Coding:

BER-TLV:	D0	16	81	03	01	23	00	82	02	81	82	8D
	07	04	3C	53	45	4E	44	3E	91	02	00	01

TERMINAL RESPONSE: GET INPUT 1.9.1A

Logically:

Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Text string

Data coding scheme: unpacked, 8 bit data  
 Text: empty string

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	01	04									

TERMINAL RESPONSE: GET INPUT 1.9.1B

Logically:

Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Text string

Contents: Null data object

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	00										

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.10.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.10.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help info available]
4	ME → USER	Request for input	Range of expected length is 1-5 Null Text string
5	USER → ME	Enter the input "12345" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.10.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.10.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text string

Text: length null (00).

## Response length

Minimum length: 1  
 Maximum length: 5

Coding:

BER-TLV:	D0	0F	81	03	01	23	00	82	02	81	82	8D
	00	91	02	01	05							

TERMINAL RESPONSE: GET INPUT 1.10.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text string

Data coding scheme: unpacked, 8 bit data  
 Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

## 27.22.4.3.1.5 Test requirement

The 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 11.14 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.13.

## 27.22.4.3.2.3 Test purpose

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

## 27.22.4.3.2.4 Method of test

## 27.22.4.3.2.4.1 Initial conditions

The ME is connected to the SIM 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.

The SIM simulator shall be set to that period of time.

## 27.22.4.3.2.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 2.1.1	[digits only, SMS default alphabet ME to echo text, packing not required, no help information available]
4	ME → USER	Display "<TIME-OUT>"	Range of expected length is 0-10 Text string coding in unpacked format
5	USER	Waiting and no completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 2.1.1	[No response from user] within 5 s after the end of that defined period of time

## PROACTIVE COMMAND: GET INPUT 2.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

## Response length

Minimum length: 0  
 Maximum length: 10

Coding:

BER-TLV:	D0	1A	81	03	01	23	00	82	02	81	82	8D
	0B	04	3C	54	49	4D	45	2D	4F	55	54	3E
	91	02	00	0A								

TERMINAL RESPONSE: GET INPUT 2.1.1

Logically:

Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: No response from user

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	12
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#### 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 format display)

##### 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 11.14 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.13.

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 SIM command, and returns the text string entered in the TERMINAL RESPONSE command sent to the SIM.

##### 27.22.4.3.3.4 Method of test

###### 27.22.4.3.3.4.1 Initial conditions

The ME is connected to the SIM 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, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 3.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 3.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display " ЗДРАВСТВУЙТЕ "	Range of expected length is 5-5 Text string "Hello" in Russian coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "HELLO" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 3.1.1	[command performed successfully]

## PROACTIVE COMMAND: GET INPUT 3.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

## Response length

Minimum length: 5  
 Maximum length: 5

Coding:

BER-TLV:	D0	28	81	03	01	23	01	82	02	81	82	8D
	19	08	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	91	02	05	05						

## TERMINAL RESPONSE: GET INPUT 3.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text string

Data coding scheme: unpacked, 8 bit data  
 Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 3.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 3.2.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "ЗДРАВСТВУЙТЕЗДРАВСТВУ ЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ ТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ "	Range of expected length is 5-5 Text string length 70 characters, coding in 16 bits UCS2 alphabet format
5	USER → ME	Enter the input "HELLO" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 3.2.1	[command performed successfully]

#### PROACTIVE COMMAND: GET INPUT 3.2.1

Logically:

##### Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

##### Device identities

Source device: SIM  
 Destination device: ME

##### Text String

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

##### Response length

Minimum length: 5  
 Maximum length: 5

Coding:

BER-TLV:	D0	81	9D	81	03	01	23	01	82	02	81	82
	8D	81	8D	08	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	12	04	21	04	22	04	12	04	23	04	10
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	91	02	05	05								

TERMINAL RESPONSE: GET INPUT 3.2.1

Logically:

Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: alphabet set, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Text string

Data coding scheme: unpacked, 8 bit data  
 Text: "HELLO"

Coding:

BER-TLV:	81	03	01	23	01	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

#### 27.22.4.3.3.5 Test requirement

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

#### 27.22.4.3.4 GET INPUT (UCS2 format of entry)

##### 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 11.14 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.13.

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 SIM command, and returns the text string entered in the TERMINAL RESPONSE command sent to the SIM.

##### 27.22.4.3.4.4 Method of test

###### 27.22.4.3.4.4.1 Initial conditions

The ME is connected to the SIM 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, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 4.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 4.1.1	[character set, UCS2 alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter Hello"	Range of expected length is 12-12 Text string coding in unpacked format
5	USER → ME	Enter the input "ЗДРАВСТВУЙТЕ" and completion	"Hello" in Russian, coding in UCS2 format
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 4.1.1	[command performed successfully]

## PROACTIVE COMMAND: GET INPUT 4.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

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

## Response length

Minimum length: 12  
 Maximum length: 12

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	0C	0C							

## TERMINAL RESPONSE: GET INPUT 4.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text string

Data coding scheme: UCS2  
 Text: "ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	19	08	04	17	04	14	04	20	04	10	04
	12	04	21	04	22	04	12	04	23	04	19	04
	22	04	15									

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 4.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 4.2.1	[character set, UCS2 alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter Hello"	Range of expected length is no limit
5	USER → ME	Enter the input "ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ and completion	Text string coding in unpacked format Input length 70 characters, coding in UCS2 format
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 4.2.1	[command performed successfully]

#### PROACTIVE COMMAND: GET INPUT 4.2.1

Logically:

##### Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available

##### Device identities

Source device: SIM  
 Destination device: ME

##### Text String

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

##### Response length

Minimum length: 5  
 Maximum length: No maximum length requirement

Coding:

BER-TLV:	D0	1B	81	03	01	23	03	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	48	65	6C	6C
	6F	91	02	05	FF							

#### TERMINAL RESPONSE: GET INPUT 4.2.1

Logically:

##### Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: character set, UCS2 alphabet, input in unpacked format, ME to echo text, no help information available

##### Device identities

Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Data coding scheme: UCS2  
 Text: "ЗДРАВСТВУЙТЕ...ЗДРАВСТВУЙ" (70 chars)

Coding:

BER-TLV:	81	03	01	23	03	82	02	82	81	83	01	00
	8D	81	8D	08	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	12	04	21	04	22	04	12	04	23	04	19

#### 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 11.14 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.13.

##### 27.22.4.3.5.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive SIM command, and returns the text string entered in the TERMINAL RESPONSE command sent to the SIM.

##### 27.22.4.3.5.4 Method of test

##### 27.22.4.3.5.4.1 Initial conditions

The ME is connected to the SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 5.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 5.1.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter 12345" Display "12345"	Range of expected length is 5-5 Text string coding in unpacked format Default text coding in unpacked format
5	USER → ME	Completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 5.1.1	[command performed successfully]

## PROACTIVE COMMAND: GET INPUT 5.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "Enter 12345"

## Response length

Minimum length: 5  
 Maximum length: 5

## Default Text

Data coding scheme: unpacked, 8 bit data  
 Text: "12345"

Coding:

BER-TLV:	D0	23	81	03	01	23	00	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05	17	06	04	31	32	33	34
	35											

## TERMINAL RESPONSE: GET INPUT 5.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text string

Data coding scheme: unpacked, 8 bit data

Text: "12345"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	06	04	31	32	33	34	35				

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 5.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 5.2.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter:" Display default text input: "***1111111111###**22222222 22####**3333333333##***4444 444444####5555555555##*** 6666666666##***7777777777# ##***8888888888##***9999999 999##***0000000000##"	Range of expected length is 160-160 Text string coding in unpacked format Default text length 160 bytes coding in unpacked format
5	USER → ME	Completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 5.2.1	[command performed successfully]

#### PROACTIVE COMMAND: GET INPUT 5.2.1

Logically:

##### Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

##### Device identities

Source device: SIM  
 Destination device: ME

##### Text String

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

##### Response length

Minimum length: 160  
 Maximum length: 160

##### Default Text

Data coding scheme: unpacked, 8 bit data  
 Text:  
 "\*\*\*1111111111###\*\*2222222222##\*\*\*3333333333##\*\*\*4444444444##\*\*\*  
 5555555555##\*\*\*6666666666##\*\*\*7777777777##\*\*\*8888888888##\*\*\*9999  
 999999##\*\*\*0000000000##"

Coding:

BER-TLV:	D0	81	BA	81	03	01	23	00	82	02	81	82
	8D	07	04	45	6E	74	65	72	3°	91	02	A0
	A0	17	81	A1	04	2°	2°	2°	31	31	31	31
	31	31	31	31	31	31	23	23	23	2°	2°	2°
	32	32	32	32	32	32	32	32	32	32	23	23
	23	2°	2°	2°	33	33	33	33	33	33	33	33
	33	33	23	23	23	2°	2°	2°	34	34	34	34
	34	34	34	34	34	34	23	23	23	2°	2°	2°
	35	35	35	35	35	35	35	35	35	35	23	23
	23	2°	2°	2°	36	36	36	36	36	36	36	36
	36	36	23	23	23	2°	2°	2°	37	37	37	37
	37	37	37	37	37	37	23	23	23	2°	2°	2°
	38	38	38	38	38	38	38	38	38	38	23	23
	23	2°	2°	2°	39	39	39	39	39	39	39	39
	39	39	23	23	23	2°	2°	2°	30	30	30	30
	30	30	30	30	30	30	23	23	23			

#### TERMINAL RESPONSE: GET INPUT 5.2.1

Logically:

##### Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Command performed successfully

##### Text String

Data coding scheme: unpacked, 8 bit data  
 Text:  
 "\*\*\*1111111111###\*\*2222222222#####3333333333#####4444444444#####  
 5555555555#####6666666666#####7777777777#####8888888888#####9999  
 999999#####0000000000##"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	81	A1	04	2A	2A	2A	31	31	31	31	31
	31	31	31	31	31	23	23	23	2A	2A	2A	32
	32	32	32	32	32	32	32	32	32	23	23	23
	2A	2A	2A	33	33	33	33	33	33	33	33	33
	33	23	23	23	2A	2A	2A	34	34	34	34	34
	34	34	34	34	34	23	23	23	2A	2A	2A	35
	35	35	35	35	35	35	35	35	35	23	23	23
	2A	2A	2A	36	36	36	36	36	36	36	36	36
	36	23	23	23	2A	2A	2A	37	37	37	37	37
	37	37	37	37	37	23	23	23	2A	2A	2A	38
	38	38	38	38	38	38	38	38	38	23	23	23
	2A	2A	2A	39	39	39	39	39	39	39	39	39
	39	23	23	23	2A	2A	2A	30	30	30	30	30
	30	30	30	30	30	23	23	23				

#### 27.22.4.3.5.5

#### Test requirement

The 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 11.14 [15] clause 5.2, clause 6.4.3, clause 6.5.4, clause 6.6.3, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3, clause 12.13 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 SIM command, and returns the text string entered in the TERMINAL RESPONSE command sent to the SIM.

#### 27.22.4.3.6.4 Method of test

##### 27.22.4.3.6.4.1 Initial conditions

The ME is connected to the SIM 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)**

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

#### PROACTIVE COMMAND: GET INPUT 6.1.1

Logically:

##### Command details

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

##### Device identities

Source device: SIM  
 Destination device: ME

##### Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "<NO-ICON>"

Response length

Minimum length: 0  
Maximum length: 10

Icon Identifier

Icon qualifier: self-explanatory  
Icon identifier: 1 (number of record in EF<sub>Img</sub>)

Coding:

BER-TLV:	D0	1D	81	03	01	23	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	91
	02	00	0A	1E	02	00	01					

TERMINAL RESPONSE: GET INPUT 6.1.1A

Logically:

Command details

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

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command performed successfully

Text string

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

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 6.1.1	[BASIC-ICON self-explanatory for the Text string]
4	ME → USER	Display "<NO-ICON>" for the prompt without the icon	Text string coding in unpacked format
5	USER → ME	Enter "+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 6.1.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INPUT 6.1.1B

Logically:

Command details

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

Device identities

Source device: ME  
Destination device: SIM

## Result

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

## Text string

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

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 6.2.1	[BASIC-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<BASIC-ICON>" and Display the BASIC-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 6.2.1A	[Command performed successfully]

## PROACTIVE COMMAND: GET INPUT 6.2.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
Destination device: ME

## Text String

Data coding scheme: unpacked, 8 bit data  
Text: "<BASIC-ICON>"

## Response length

Minimum length: 0  
Maximum length: 10

## Icon Identifier

Icon qualifier: not self-explanatory  
Icon identifier: 1 (number of record in EF<sub>Img</sub>)

Coding:

BER-TLV:	D0	20	81	03	01	23	00	82	02	81	82	8D
	0D	04	3C	42	41	53	49	43	2D	49	43	4F
	4E	3E	91	02	00	0A	1E	02	01	01		

## TERMINAL RESPONSE: GET INPUT 6.2.1A

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, no help information available  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Command performed successfully  
 Text string  
   Data coding scheme: unpacked, 8 bit data  
   Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 6.2.1	[BASIC-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<BASIC-ICON>" for the prompt without the icon	
5	USER → ME	Enter the input "+" and completion	Text string coding in unpacked format
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 6.2.1B	[Command performed successfully, but requested icon could not be displayed]

#### TERMINAL RESPONSE: GET INPUT 6.2.1B

Logically:

Command details  
 Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, no help information available  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Command performed successfully but requested icon could not be displayed  
 Text string  
   Data coding scheme: unpacked, 8 bit data  
   Text: "+"

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

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

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 6.3.1	[COLOUR-ICON self-explanatory for the Text string]
4	ME → USER	Display the COLOUR-ICON for the prompt	Text string coding in unpacked format
5	USER → ME	Enter the input "+" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 6.3.1A	[Command performed successfully]

**PROACTIVE COMMAND: GET INPUT 6.3.1**

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "<NO-ICON>"

## Response length

Minimum length: 0  
 Maximum length: 10

## Icon Identifier

Icon qualifier: self-explanatory  
 Icon identifier: 2 (number of record in EF<sub>Img</sub>)

## Coding:

BER-TLV:	D0	1D	81	03	01	23	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	91
	02	00	0A	1E	02	00	02					

**TERMINAL RESPONSE: GET INPUT 6.3.1A**

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text string

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

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 6.3.1	[COLOUR-ICON self-explanatory for the Text string]
4	ME → USER	Display "<NO-ICON>" for the prompt without the icon	
5	USER → ME	Enter the input "+" and completion	Text string coding in unpacked format
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 6.3.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INPUT 6.3.1B

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Text string

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

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 6.4.1	[COLOUR-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<COLOUR-ICON>" and Display the COLOUR-ICON for the prompt	
5	USER → ME	Enter the input "+" and completion	Text string coding in unpacked format
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 6.4.1A	[Command performed successfully]

## PROACTIVE COMMAND: GET INPUT 6.4.1

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "<COLOUR-ICON>"

## Response length

Minimum length: 0  
 Maximum length: 10

## Icon Identifier

Icon qualifier: not self-explanatory  
 Icon identifier: 2 (number of record in EF<sub>Img</sub>)

Coding:

BER-TLV:	D0	21	81	03	01	23	00	82	02	81	82	8D
	0E	04	3C	43	4F	4C	4F	55	52	2D	49	43
	4F	4E	3E	91	02	00	0A	1E	02	01	02	

## TERMINAL RESPONSE: GET INPUT 6.4.1A

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text string

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

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	8D	02	04	2B								

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

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 6.4.1	[COLOUR-ICON non self-explanatory for the Text string]
4	ME → USER	Display "<COLOUR-ICON>" for the prompt without the icon	
5	USER → ME	Enter the input "+" and completion	Text string coding in unpacked format
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 6.4.1B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: GET INPUT 6.4.1B

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

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

## Text string

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

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	04
	8D	02	04	2B								

**27.22.4.3.6.5 Test Requirement**

The 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 11.14 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 12.6, clause 12.15, clause 12.15.1, clause 12.15.2, clause 12.15.3 and clause 12.13.

## 27.22.4.3.7.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive SIM command, and returns a 'help information required by the user' result value in the TERMINAL RESPONSE command sent to the SIM 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 SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 7.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 7.1.1	[digits only, SMS default alphabet, ME to echo text, packing not required, help information available]
4	ME → USER	Display "Enter 12345"	Range of expected length is 5-5 Text string coding in unpacked format
5	USER → ME	Press "help"	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 7.1.1	[command performed, help information required by user]

## PROACTIVE COMMAND: GET INPUT 7.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, help information available

## Device identities

Source device: SIM  
 Destination device: ME

## Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "Enter 12345"

## Response length

Minimum length: 5  
 Maximum length: 5

## Coding:

BER-TLV:	D0	1B	81	03	01	23	80	82	02	81	82	8D
	0C	04	45	6E	74	65	72	20	31	32	33	34
	35	91	02	05	05							

## TERMINAL RESPONSE: GET INPUT 7.1.1

Logically:

## Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, help information available

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Help information required by the user

## Coding:

BER-TLV:	81	03	01	23	80	82	02	82	81	83	01	13
----------	----	----	----	----	----	----	----	----	----	----	----	----

## 27.22.4.3.7.5 Test requirement

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

## 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 11.14 [15] clause 6.4.4, clause 6.6.4, clause 5.2, clause 12.6 and clause 12.7.

## 27.22.4.4.3 Test purpose

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

## 27.22.4.4.4 Method of test

## 27.22.4.4.4.1 Initial conditions

The ME is connected to the SIM 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)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: MORE TIME 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: MORE TIME 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: MORE TIME 1.1.1	[Command performed successfully]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	

## PROACTIVE COMMAND: MORE TIME 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME

Coding:

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

## TERMINAL RESPONSE: MORE TIME 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

## 27.22.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

## 27.22.4.5 PLAY TONE

## 27.22.4.5.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.5.2 Conformance requirement

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

- TS 11.14 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 12.6, clause 12.7, clause 12.2, clause 12.16 and clause 12.8.

## 27.22.4.5.3 Test purpose

To verify that the ME plays an audio tone of a type and duration contained in the PLAY TONE proactive SIM command, and returns a successful response in the TERMINAL RESPONSE command sent to the SIM.

To verify that the ME plays the requested audio tone through the external ringer 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 SIM command.

## 27.22.4.5.4 Method of test

## 27.22.4.5.4.1 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. 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 Procedure

## Expected Sequence 1.1 (PLAY TONE)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: PLAY TONE 1.1.1	[Command performed successfully]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	
7	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.2	
8	ME → SIM	FETCH	
9	SIM → 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 → SIM	TERMINAL RESPONSE: PLAY TONE 1.1.2	[Command performed successfully]
12	SIM → ME	PROACTIVE SIM SESSION ENDED	
13	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.3	
14	ME → SIM	FETCH	
15	SIM → 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 → SIM	TERMINAL RESPONSE: PLAY TONE 1.1.3	[Command performed successfully]
18	SIM → ME	PROACTIVE SIM SESSION ENDED	
19	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.4	
20	ME → SIM	FETCH	
21	SIM → ME	PROACTIVE COMMAND: PLAY TONE 1.1.4	
22	ME → USER	Display "RP Ack"  Play a standard supervisory radio path acknowledgement tone	
23	ME → SIM	TERMINAL RESPONSE: PLAY TONE 1.1.4	[Command performed successfully]
24	SIM → ME	PROACTIVE SIM SESSION ENDED	
25	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.5	
26	ME → SIM	FETCH	
27	SIM → ME	PROACTIVE COMMAND: PLAY TONE 1.1.5	

Step	Direction	MESSAGE / Action	Comments
28	ME → USER	Display "No RP"	
29	ME → SIM	Play a standard supervisory radio path not available / call dropped tone for a duration of 5 s TERMINAL RESPONSE: PLAY TONE 1.1.5	[Command performed successfully]
30	SIM → ME	PROACTIVE SIM SESSION ENDED	
31	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.6	
32	ME → SIM	FETCH	
33	SIM → ME	PROACTIVE COMMAND: PLAY TONE 1.1.6	
34	ME → USER	Display "Spec Info"	
35	ME → SIM	Play a standard supervisory error / special information tone for a duration of 5 s TERMINAL RESPONSE: PLAY TONE 1.1.6	[Command performed successfully]
36	SIM → ME	PROACTIVE SIM SESSION ENDED	
37	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.7	
38	ME → SIM	FETCH	
39	SIM → ME	PROACTIVE COMMAND: PLAY TONE 1.1.7	
40	ME → USER	Display "Call Wait"	
41	ME → SIM	Play a standard supervisory call waiting tone for a duration of 5 s TERMINAL RESPONSE: PLAY TONE 1.1.7	[Command performed successfully]
42	SIM → ME	PROACTIVE SIM SESSION ENDED	
43	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.8	
44	ME → SIM	FETCH	
45	SIM → ME	PROACTIVE COMMAND: PLAY TONE 1.1.8	
46	ME → USER	Display "Ring Tone"	
47	ME → SIM	Play a standard supervisory ringing tone for duration of 5 s TERMINAL RESPONSE: PLAY TONE 1.1.8	[Command performed successfully]
48	SIM → ME	PROACTIVE SIM SESSION ENDED	
49	USER → ME	Set up a voice call	[ User dials 123456789 to connect to the network manually]
50	ME → SS	Establish voice call	[Voice call is established]
51	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.9	
52	ME → SIM	FETCH	
53	SIM → ME	PROACTIVE COMMAND: PLAY TONE 1.1.9	
54	ME → USER	Display "Dial Tone"	
55	ME → SIM	Superimpose the standard supervisory dial tone on the audio downlink for the duration of 5 s TERMINAL RESPONSE: PLAY TONE 1.1.9	[Command performed successfully]
56	SIM → ME	PROACTIVE SIM SESSION ENDED	
57	USER → ME	The user ends the call	

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

Step	Direction	MESSAGE / Action	Comments
80	ME → SIM	TERMINAL RESPONSE: PLAY TONE 1.1.13a or TERMINAL RESPONSE: PLAY TONE 1.1.13b	[Command performed successfully] or [Command beyond ME's capabilities]
81	SIM → ME	PROACTIVE SIM SESSION ENDED	
82	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.14	
83	ME → SIM	FETCH	
84	SIM → ME	PROACTIVE COMMAND: PLAY TONE 1.1.14	
85	ME → USER	Display "Quick"	
		Play a ME proprietary general beep	
86	ME → SIM	TERMINAL RESPONSE: PLAY TONE 1.1.14a or TERMINAL RESPONSE: PLAY TONE 1.1.14b	[Command performed successfully] or [Command beyond ME's capabilities]
87	SIM → ME	PROACTIVE SIM SESSION ENDED	
88	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.15	
89	ME → SIM	FETCH	
90	SIM → ME	PROACTIVE COMMAND: PLAY TONE 1.1.15	
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 → SIM	TERMINAL RESPONSE: PLAY TONE 1.1.15	[Proactive SIM session terminated by the user]
93	SIM → ME	PROACTIVE SIM SESSION ENDED	
94	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.16	
95	ME → SIM	FETCH	
96	SIM → ME	PROACTIVE COMMAND: PLAY TONE 1.1.16	[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 → SIM	TERMINAL RESPONSE: PLAY TONE 1.1.16	[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	SIM → ME	PROACTIVE SIM SESSION ENDED	

## PROACTIVE COMMAND: PLAY TONE 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"

## Device identities

Source device: SIM

Destination device: Earpiece  
 Alpha identifier: "Dial Tone"  
 Tone: Standard supervisory tones: dial tone  
 Duration  
 Time unit: Seconds  
 Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	44	69	61	6C	20	54	6F	6E	65	8E	01
	01	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.2

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: Earpiece  
 Alpha identifier: "Sub. Busy"  
 Tone: Standard supervisory tones: called subscriber busy  
 Duration  
 Time unit: Seconds  
 Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	53	75	62	2E	20	42	75	73	79	8E	01
	02	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.3

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: Earpiece  
 Alpha identifier: "Congestion"  
 Tone: Standard supervisory tones: congestion  
 Duration  
 Time unit: Seconds  
 Time interval: 5

Coding:

BER-TLV:	D0	1C	81	03	01	20	00	82	02	81	03	85
	0A	43	6F	6E	67	65	73	74	69	6F	6E	8E
	01	03	84	02	01	05						

PROACTIVE COMMAND: PLAY TONE 1.1.4

Logically:

## Command details

Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: Earpiece  
 Alpha identifier: "RP Ack"  
 Tone: Standard supervisory tones: radio path acknowledge

## Duration

Time unit: Seconds  
 Time interval: 5

Coding:

BER-TLV:	D0	18	81	03	01	20	00	82	02	81	03	85
	06	52	50	20	41	63	6B	8E	01	04	84	02
	01	05										

## PROACTIVE COMMAND: PLAY TONE 1.1.5

Logically:

## Command details

Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: Earpiece  
 Alpha identifier: "No RP"  
 Tone: Standard supervisory tones: radio path not available

## Duration

Time unit: Seconds  
 Time interval: 5

Coding:

BER-TLV:	D0	17	81	03	01	20	00	82	02	81	03	85
	05	4E	6F	20	52	50	8E	01	05	84	02	01
	05											

## PROACTIVE COMMAND: PLAY TONE 1.1.6

Logically:

## Command details

Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: Earpiece  
 Alpha identifier: "Spec Info"  
 Tone: Standard supervisory tones: Error/ special information

## Duration

Time unit: Seconds  
 Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	53	70	65	63	20	49	6E	66	6F	8E	01
	06	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.7

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: Earpiece  
 Alpha identifier: "Call Wait"  
 Tone: Standard supervisory tones: call waiting tone  
 Duration  
 Time unit: Seconds  
 Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	43	61	6C	6C	20	57	61	69	74	8E	01
	07	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.8

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: Earpiece  
 Alpha identifier: "Ring Tone"  
 Tone: Standard supervisory tones: ringing tone  
 Duration  
 Time unit: Seconds  
 Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	52	69	6E	67	20	54	6F	6E	65	8E	01
	08	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.9

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: Earpiece

Alpha identifier: "Dial Tone"  
 Tone: Standard supervisory tones: dial tone  
 Duration  
 Time unit: Seconds  
 Time interval: 5

Coding:

BER-TLV:	D0	1B	81	03	01	20	00	82	02	81	03	85
	09	44	69	61	6C	20	54	6F	6E	65	8E	01
	01	84	02	01	05							

PROACTIVE COMMAND: PLAY TONE 1.1.10

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: Earpiece  
 Alpha identifier: "This command instructs the ME to play an audio tone. Upon receiving this command, the ME shall check if it is currently in, or in the process of setting up (SET-UP message sent to the network, see GSM"04.08"(8)), a speech call. - If the ME I"

Coding:

BER-TLV:	D0	81	FD	81	03	01	20	00	82	02	81	03
	85	81	F1	54	68	69	73	20	63	6F	6D	6D
	61	6 <sup>E</sup>	64	20	69	6 <sup>E</sup>	73	74	72	75	63	74
	73	20	74	68	65	20	4D	45	20	74	6F	20
	70	6C	61	79	20	61	6E	20	61	75	64	69
	6F	20	74	6F	6E	65	2E	20	55	70	6F	6E
	20	72	65	63	65	69	76	69	6E	67	20	74
	68	69	73	20	63	6F	6D	6D	61	6E	64	2C
	20	74	68	65	20	4D	45	20	73	68	61	6C
	6C	20	63	68	65	63	6B	20	69	66	20	69
	74	20	69	73	20	63	75	72	72	65	6E	74
	6C	79	20	69	6E	2C	20	6F	72	20	69	6E
	20	74	68	65	20	70	72	6F	63	65	73	73
	20	6F	66	20	73	65	74	74	69	6E	67	20
	75	70	20	28	53	45	54	2D	55	50	20	6D
	65	73	73	61	67	65	20	73	65	6E	74	20
	74	6F	20	74	68	65	20	6E	65	74	77	6F
	72	6B	2C	20	73	65	65	20	47	53	4D	22
	30	34	2 <sup>E</sup>	30	38	22	28	38	29	29	2C	20
	61	20	73	70	65	65	63	68	20	63	61	6C
	6C	2 <sup>E</sup>	20	2D	20	49	66	20	74	68	65	20
	4D	45	20	49								

PROACTIVE COMMAND: PLAY TONE 1.1.11

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM

Destination device: Earpiece  
 Alpha identifier: "Beep"  
 Tone: ME proprietary tones: general beep  
 Duration  
 Time unit: Seconds  
 Time interval: 1

Coding:

BER-TLV:	D0	16	81	03	01	20	00	82	02	81	03	85
	04	42	65	65	70	8E	01	10	84	02	01	01

PROACTIVE COMMAND: PLAY TONE 1.1.12

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: Earpiece  
 Alpha identifier: "Positive"  
 Tone: ME proprietary tones: positive acknowledgement tone  
 Duration  
 Time unit: Seconds  
 Time interval: 1

Coding:

BER-TLV:	D0	1A	81	03	01	20	00	82	02	81	03	85
	08	50	6F	73	69	74	69	76	65	8E	01	11
	84	02	01	01								

PROACTIVE COMMAND: PLAY TONE 1.1.13

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: Earpiece  
 Alpha identifier: "Negative"  
 Tone: ME proprietary tones: negative acknowledgement tone  
 Duration  
 Time unit: Seconds  
 Time interval: 1

Coding:

BER-TLV:	D0	1A	81	03	01	20	00	82	02	81	03	85
	08	4E	65	67	61	74	69	76	65	8E	01	12
	84	02	01	01								

PROACTIVE COMMAND: PLAY TONE 1.1.14

Logically:

Command details

Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
   Source device: SIM  
   Destination device: Earpiece  
   Alpha identifier: "Quick"  
   Tone: ME proprietary tones: general beep  
 Duration  
   Time unit: Tenths of seconds  
   Time interval: 2

Coding:

BER-TLV:	D0	17	81	03	01	20	00	82	02	81	03	85
	05	51	75	69	63	6B	8E	01	10	84	02	02
	02											

#### PROACTIVE COMMAND: PLAY TONE 1.1.15

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
   Source device: SIM  
   Destination device: Earpiece  
   Alpha identifier: "<ABORT>"  
   Tone: Standard supervisory tones: Error / Special information  
 Duration  
   Time unit: Minutes  
   Time interval: 1

Coding:

BER-TLV:	D0	19	81	03	01	20	00	82	02	81	03	85
	07	3C	41	42	4F	52	54	3E	8E	01	06	84
	02	00	01									

#### PROACTIVE COMMAND: PLAY TONE 1.1.16

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
   Source device: SIM  
   Destination device: Earpiece

Coding:

BER-TLV:	D0	09	81	03	01	20	00	82	02	81	03	

#### TERMINAL RESPONSE: PLAY TONE 1.1.1 ... 1.1.9, 1.1.16

Logically:

Command details

Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00
----------	----	----	----	----	----	----	----	----	----	----	----	----

TERMINAL RESPONSE: PLAY TONE 1.1.10a ... 1.1.14a

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00
----------	----	----	----	----	----	----	----	----	----	----	----	----

TERMINAL RESPONSE: PLAY TONE 1.1.10b ..1.1.14b

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Command beyond ME's capabilities

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	30
----------	----	----	----	----	----	----	----	----	----	----	----	----

TERMINAL RESPONSE: PLAY TONE 1.1.15

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Proactive SIM session terminated by user

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	10
----------	----	----	----	----	----	----	----	----	----	----	----	----

#### 27.22.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

#### 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 11.14 [15] clause 6.1, clause 6.4.6, clause 6.6.6, clause 5.2, clause 12.6, clause 12.7 and clause 12.8.

##### 27.22.4.6.3 Test purpose

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

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

To verify that the ME sends STATUS commands to the SIM at an interval no longer than the interval negotiated by the SIM.

##### 27.22.4.6.4 Method of test

###### 27.22.4.6.4.1 Initial conditions

The ME is connected to the SIM 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

##### Expected Sequence 1.1 (POLL INTERVAL, Seconds)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POLL INTERVAL 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POLL INTERVAL 1.1.1	[Duration: 20 seconds]
4	ME → SIM	TERMINAL RESPONSE: POLL INTERVAL 1.1.1	[Command performed successfully, duration depends on the ME's capabilities]
5	ME → SIM	ME polls in intervals as stated in the duration TLV of TERMINAL RESPONSE: POLL INTERVAL 1.1.1	

##### PROACTIVE COMMAND: POLL INTERVAL 1.1.1

Logically:

Command details

Command number: 1

Command type: POLL INTERVAL  
 Command qualifier: "00"  
 Device identities  
   Source device: SIM  
   Destination device: ME  
 Duration  
   Time unit: Seconds  
   Time interval: 20

Coding:

BER-TLV:	D0	0D	81	03	01	03	00	82	02	81	82	84
	02	01	14									

TERMINAL RESPONSE: POLL INTERVAL 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: POLL INTERVAL  
 Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Command performed successfully  
 Duration  
   Time unit: Seconds  
   Time interval: 20

Coding:

BER-TLV:	81	03	01	03	00	82	02	82	81	83	01	00
	84	02	01	14								

Note: If the requested poll interval is not supported by the ME, the ME is allowed to use a different one as stated in TS 11.14 [13], 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 11.14 [15] clause 6.1, clause 6.4.7, clause 6.6.13, clause 5.2, clause 12.6, clause 12.7 and clause 12.18.

## 27.22.4.7.1.3 Test purpose

To verify that the ME performs the SIM initialization and / or re-reads the contents and structure of the EFs on the SIM that have been changed and / or restarts the card session by resetting the ME, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the SIM.

## 27.22.4.7.1.4 Method of test

## 27.22.4.7.1.4.1 Initial conditions

The ME is connected to the SIM Simulator and to 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.

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, SIM Initialization)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: REFRESH 1.1.1	
4	SIM	Invalidate EF IMSI, EF LOCI and EF ADN	[Restricted dialling feature is enabled]
5	ME → SIM	SIM Initialization	[ME performs SIM initialization]
6	ME → SIM	TERMINAL RESPONSE: REFRESH 1.1.1A Or TERMINAL RESPONSE: REFRESH 1.1.1B	[additional EFs read]
7	SIM → ME	PROACTIVE SIM 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 → SS	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: SIM Initialization

## Device identities

Source device: SIM  
 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: SIM Initialization  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 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: SIM Initialization  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 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	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: REFRESH 1.2.1	
4	SIM	Update EF FDN RECORD 1	[EF FDN record 1 updated to contain the dialling string "0123456789"]
5	ME → SIM	TERMINAL RESPONSE: REFRESH 1.2.1A Or TERMINAL RESPONSE: REFRESH 1.2.1B	[normal ending]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	[additional EFs read]
7	USER → ME	Call setup to "123"	
8	ME → USER	Call set up not allowed	
9	USER → ME	Call setup to "0123456789"	
10	ME → SS	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: SIM

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	10	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: SIM  
 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: SIM  
 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, SIM Initialization and File Change Notification)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: REFRESH 1.3.1	
4	SIM	Update EF PLMN	[EF PLMN to contain the PLMN code "98798" as the first PLMN code]
5	ME → SIM	SIM initialization and READ BINARY: EF PLMN	
6	ME → SIM	TERMINAL RESPONSE: REFRESH 1.3.1A Or TERMINAL RESPONSE: REFRESH 1.3.1B	[normal ending] [additional EFs read]
7	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND: REFRESH 1.3.1

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialization and File Change Notification

## Device identities

Source device: SIM  
 Destination device: ME  
 File List: EF PLMN

Coding:

BER-TLV:	D0	12	81	03	01	01	02	82	02	81	82	92
	07	01	3F	00	7F	20	6F	30				

TERMINAL RESPONSE: REFRESH 1.3.1A

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialization and File Change Notification

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: REFRESH 1.3.1B

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialization and File Change Notification

## Device identities

Source device: ME  
 Destination device: SIM

## 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, SIM Initialization and Full File Change Notification)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: REFRESH 1.4.1	
4	SIM	Invalidate EF IMSI, EF LOCI and EF ADN	[Restricted dialling feature is enabled]
5	SIM	Update EF FDN	[EF FDN record 1 updated to contain the dialling string "0123456789"]
6	ME → SIM	SIM Initialization	[ME performs SIM initialization]
7	ME → SIM	TERMINAL RESPONSE: REFRESH 1.4.1A Or TERMINAL RESPONSE: REFRESH 1.4.1B	[additional EFs read]
8	SIM → ME	PROACTIVE SIM 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 → SS	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: SIM Initialization and Full File Change Notification

## Device identities

Source device: SIM  
 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: SIM Initialization and Full File Change Notification

## Device identities

Source device: ME  
 Destination device: SIM

## 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: SIM Initialization and Full File Change Notification

## Device identities

Source device: ME  
 Destination device: SIM

## 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, SIM Reset)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: REFRESH 1.5.1	
4	ME → SIM	GSM Termination Procedure	
5	ME → SIM	GSM Activation Procedure	
6	ME → SIM	SIM Initialization	
7	ME → SIM		[NO TERMINAL RESPONSE]

PROACTIVE COMMAND: REFRESH 1.5.1

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Reset

## Device identities

Source device: SIM  
 Destination device: ME

Coding:

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

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

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
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 system Simulator, if the SIM responds with '90 00']
2	SS → 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 → SIM	ENVELOPE: SMS-PP DOWNLOAD 1.6.1	
5	SIM → ME	SW1/SW2 of '90 00'	
6	ME → SS	RP-ACK	
7	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 1.1.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: REFRESH 1.1.1	
10	SIM	Invalidate EF IMSI, EF LOCI and EF ADN	[Restricted dialling feature is enabled]
11	ME → SIM	SIM Initialization	[ME performs SIM initialization]
12	ME → SIM	TERMINAL RESPONSE: REFRESH 1.1.1A Or TERMINAL RESPONSE: REFRESH 1.1.1B	[additional EFs read]
13	SIM → ME	PROACTIVE SIM 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 → SS	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	SIM Data download
TP-DCS	
Coding Group	General Data Coding
Compression	Text is uncompressed
Message Class	Class 2 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: SIM

##### 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	SIM Data download
TP-DCS	
Coding Group	General Data Coding
Compression	Text is uncompressed
Message Class	Class 2 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	

#### 27.22.4.7.1.5 Test requirement

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

#### 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 11.14 [15] clause 6.1, clause 6.4.7, clause 6.6.13, clause 5.2, clause 12.6, clause 12.7 and clause 12.18.

Additionally the ME shall support the SIM Initialization procedure as defined in:

- TS 11.11 [13] clause 12.2.1.

#### 27.22.4.7.2.3 Test purpose

To verify that the ME performs the SIM initialization and / or re-reads the contents and structure of the EFs on the SIM that have been changed and / or restarts the card session by resetting the ME, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the SIM.

#### 27.22.4.7.2.4 Method of test

##### 27.22.4.7.2.4.1 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. The elementary files are coded as SIM 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 L3-RR SYSTEM INFORMATION TYPE 3 message on the BCCH is set to "MSs shall apply IMSI attach and detach procedure" for Expected Sequences 2.2 and 2.3.

##### 27.22.4.7.2.4.2 Procedure

##### **Expected Sequence 2.1 (REFRESH, SIM Initialization and File Change Notification)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: REFRESH 2.1.1	
4	ME	Invoke MM Restart Procedure	
5	ME → SIM	SIM INITIALIZATION and the SIM will update EF IMSI, EF LOCI and EF KC after phase request	[Update the contents of EF IMSI to "001010123456788", set the update status inside EF LOCI to not updated, Temporary Mobile Subscriber Identity (TMSI) in EF LOCI to 'FF FF FF FF' and EF KC to not valid, ME performs SIM initialization; including reading EF IMSI, EF LOCI and EF KC] [normal]
6	ME → SIM	TERMINAL RESPONSE: REFRESH 2.1.1A Or TERMINAL RESPONSE: REFRESH 2.1.1B	[additional EFs read]
7	SIM → ME	PROACTIVE SIM SESSION ENDED	
8	ME → SS	Location updating request (type "normal location updating")	[Send IMSI of "001010123456788" to System Simulator]

##### PROACTIVE COMMAND: REFRESH 2.1.1

Logically:

###### Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialization and File Change Notification

###### Device identities

Source device: SIM  
 Destination device: ME

###### File List

File 1: EF IMSI  
 File 2: EF LOCI

File 3: EF KC

Coding:

BER-TLV:	D0	1E	81	03	01	01	02	82	02	81	82	92
	13	03	3F	00	7F	20	6F	07	3F	00	7F	20
	6F	7E	3F	00	7F	20	6F	20				

TERMINAL RESPONSE: REFRESH 2.1.1A

Logically:

Command details

Command number: 1  
Command type: REFRESH

Command qualifier: SIM Initialization and File Change Notification

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: REFRESH 2.1.1B

Logically:

Command details

Command number: 1  
Command type: REFRESH

Command qualifier: SIM Initialization and File Change Notification

Device identities

Source device: ME  
Destination device: SIM

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 2.2 (REFRESH, SIM Initialization and Full File Change Notification)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 2.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: REFRESH 2.2.1	
4	ME	Invoke MM Restart Procedure	[ including IMSI DETACH ]
5	ME → SIM	SIM INITIALIZATION and the SIM will update EF IMSI and EF LOCI after phase request	[Update the contents of EF IMSI to "001010123456787", Temporary Mobile Subscriber Identity (TMSI) in EF LOCI be set to 'FF FF FF FF'; ME performs SIM initialization; including reading EF IMSI, EF LOCI and EF KC] [normal]
6	ME → SIM	TERMINAL RESPONSE: REFRESH 2.2.1A Or TERMINAL RESPONSE: REFRESH 2.2.1B	[additional EFs read]
7	SIM → ME	PROACTIVE SIM SESSION ENDED	
8	ME → SS	IMSI ATTACH	[Send IMSI of "001010123456787" to System Simulator]

**PROACTIVE COMMAND: REFRESH 2.2.1**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialization and Full File Change Notification

## Device identities

Source device: SIM  
 Destination device: ME

Coding:

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

**TERMINAL RESPONSE: REFRESH 2.2.1A**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialization and File Change Notification

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

**TERMINAL RESPONSE: REFRESH 2.2.1B**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialization and File Change Notification

## Device identities

Source device: ME  
 Destination device: SIM

## 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 2.3 (REFRESH, SIM Reset)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 2.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: REFRESH 2.3.1	
4	ME → SIM	GSM Session Termination Procedure	
5	ME → SS	IMSI DETACH	
6	ME → SIM	SIM Initialization and the SIM will update EF IMSI and EF LOCI after phase request	[Update the contents of EF IMSI to "001010123456786", Temporary Mobile Subscriber Identity (TMSI) in EF LOCI be set to 'FF FF FF FF'; ME performs SIM initialization; including reading EF IMSI, EF LOCI and EF KC] [Send IMSI of "001010123456786" to System Simulator]
7	ME → SS	IMSI ATTACH	

## PROACTIVE COMMAND: REFRESH 2.3.1

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Reset

## Device identities

Source device: SIM  
 Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	01	04	82	02	81	82
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## 27.22.4.7.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.3.

## 27.22.4.8 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 11.14 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 12.6, clause 12.9 and clause 13.4.

The ME shall support MENU SELECTION as defined in:

- TS 11.14 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 8, clause 12.7 and clause 12.10.

#### 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 SIM command, and returns a successful response in the TERMINAL RESPONSE command sent to the SIM.

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 SIM using the ENVELOPE (MENU SELECTION) command.

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 SIM 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 SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.1.1	[First Set Up Menu]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND SET UP MENU 1.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" and "Item 4" under this header.	
5	ME → SIM	TERMINAL RESPONSE: SET UP MENU 1.1.1	[Command Performed Successfully]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2", "Item 3", "Item 4"	
9	USER → ME	Select the "Item 2" Menu entry	
10	ME → SIM	Send the ENVELOPE 1.1.1: MENU SELECTION (Identifier of item: 2)	
11	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.1.2	[Second Set Up Menu, REPLACE Old Menu]
12	ME → SIM	FETCH	
13	SIM → ME	PROACTIVE COMMAND SET UP MENU 1.1.2	
14	ME → USER	Integrate the new menu header of "Toolkit Menu" into its menu system and have the menu items of "One" and "Two" under this header.	
15	ME → SIM	TERMINAL RESPONSE: SET UP MENU 1.1.2	[Command Performed Successfully]
16	SIM → ME	PROACTIVE SIM SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
18	ME → USER	Display "One", "Two"	
19	USER → ME	Select the "Two" menu entry	
20	ME → SIM	Send the ENVELOPE 1.1.2: MENU SELECTION (Identifier of item: 12)	
21	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.1.3 with SW1 / SW2 of '91 0F'.	[Third Set Up Menu, REMOVE Toolkit Menu]
22	ME → SIM	FETCH	
23	SIM → ME	PROACTIVE COMMAND SET UP MENU 1.1.3	
24	ME → USER	Remove the menu "Toolkit Menu" from its menu system.	
25	ME → SIM	TERMINAL RESPONSE: SET UP MENU 1.1.3	[Command Performed Successfully]
26	SIM → ME	PROACTIVE SIM SESSION ENDED	
27	USER → ME	Has to unsuccessfully find the Toolkit Menu	

PROACTIVE COMMAND: SET UP MENU 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Menu"

## Item

Identifier of item: 1  
 Text string of item: "Item 1"

## Item

Identifier of item: 2  
 Text string of item: "Item 2"

## Item

Identifier of item: 3  
 Text string of item: "Item 3"

## Item

Identifier of item: 4  
 Text string of item: "Item 4"

Coding:

BER-TLV:	D0	3B	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	8F	07	04	49	74	65	6D	20
	34											

## PROACTIVE COMMAND: SET UP MENU 1.1.2

Logically:

## Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Menu"

## Item

Identifier of item: "11"  
 Text string of item: "One"

## Item

Identifier of item: "12"  
 Text string of item: "Two"

Coding:

BER-TLV:	D0	23	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	04	11	4F	6E	65	8F	04	12	54	77
	6F											

## PROACTIVE COMMAND: SET UP MENU 1.1.3

Logically:

## Command details

Command number: 1  
 Command type: SET UP MENU

Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Item: Empty

Coding:

BER-TLV:	D0	0D	81	03	01	25	00	82	02	81	82	85
	00	8F	00									

TERMINAL RESPONSE: SET UP MENU 1.1.1, 1.1.2 and 1.1.3

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "no help information available"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00
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ENVELOPE 1.1.1: MENU SELECTION

Logically:

Menu selection  
 Device identities  
 Source device: Keypad  
 Destination device: SIM  
 Item identifier 02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02
----------	----	----	----	----	----	----	----	----	----

ENVELOPE 1.1.2: MENU SELECTION

Logically:

Menu selection  
 Device identities  
 Source device: Keypad  
 Destination device: SIM  
 Item identifier 12

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	12
----------	----	----	----	----	----	----	----	----	----

**Expected Sequence 1.2 (SET UP MENU, Large Menu with many items or with large items or with Large Alpha Identifier)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.2.1	[First Large Menu with many items, Fetch of FF bytes]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND SET UP MENU 1.2.1	
4	ME → USER	Integrate the new menu header of "LargeMenu1" into its menu system and have the menu items of "Zero", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine", "Alpha", "Bravo", "Charlie", "Delta", "Echo", "Fox-trot", "Black", "Brown", "Red", "Orange", "Yellow", "Green", "Blue", "Violet", "Grey", "White", "milli", "micro", "nano" and "pico" under this header.	
5	ME → SIM	TERMINAL RESPONSE: SET UP MENU 1.2.1	[Command Performed Successfully]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	
7	USER → ME	Select the Toolkit "LargeMenu1"	
8	ME → USER	Display "Zero", "One", "Two" ... "pico"	
9	USER → ME	Select the "Orange" menu entry	
10	ME → SIM	Send the ENVELOPE 1.2.1: MENU SELECTION (Identifier of item: 0x3D)	
11	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.2.2	[Second Large Menu with large items, Fetch of F6 bytes]
12	ME → SIM	FETCH	
13	SIM → ME	PROACTIVE COMMAND SET UP MENU 1.2.2	
14	ME → USER	Integrate the new menu header of "LargeMenu2" into its menu system and have the menu items of "1 Call Forward Unconditional", "2 Call Forward On User Busy", "3 Call Forward On No Reply", "4 Call Forward On User Not Reachable", "5 Barring Of All Outgoing Calls", "6 Barring Of All Outgoing Int Calls" and "7 CLI Presentation" under this header.	
15	ME → SIM	TERMINAL RESPONSE: SET UP MENU 1.2.2	[Command Performed Successfully]
16	SIM → ME	PROACTIVE SIM SESSION ENDED	
17	USER → ME	Select the Toolkit Menu "LargeMenu2"	
18	ME → USER	Display "1 Call Forward Unconditional", "2 Call Forward On User Busy", "3 Call Forward On No Reply", "4 Call Forward On User Not Reachable", "5 Barring Of All Outgoing Calls", "6 Barring Of All Outgoing Int Calls", "7 CLI Presentation"	
19	USER → ME	Select the "5 Barring Of All Outgoing Calls" menu entry	
20	ME → SIM	Send the ENVELOPE 1.2.2: MENU SELECTION (Identifier of item: 0xFB)	

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
21	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 1.2.3	[Third Large Menu with a Large Alpha Identifier and only one Short Item, Fetch of FF bytes]
22	ME → SIM	FETCH	
23	SIM → ME	PROACTIVE COMMAND SET UP MENU 1.2.3	
24	ME → USER	Integrate the new menu header of " The SIM shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items at his own discretion. Each item comprises a sh" into it's menu system and have a menu item of "Y" under this header.	
25	ME → SIM	TERMINAL RESPONSE: SET UP MENU 1.2.3	[Command Performed Successfully]
26	SIM → ME	PROACTIVE SIM SESSION ENDED	
27	USER → ME	Select the Toolkit Menu "The SIM shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items at his own discretion. Each item comprises a sh".	
28	ME → USER	Display "Y"	
29	USER → ME	Select the item "Y"	
30	ME → SIM	Send the ENVELOPE 1.2.3: MENU SELECTION (Identifier of item: 1)	

### PROACTIVE COMMAND: SET UP MENU 1.2.1

Logically:

Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "00"

Device identities

Source device: SIM  
 Destination device: ME  
 Alpha Identifier: "LargeMenu1"

Item

Identifier of item: "50"  
 Text string of item: "Zero"

Item

Identifier of item: "4F"  
 Text string of item: "One"

Item

Identifier of item: "4E"  
 Text string of item: "Two"

Item

Identifier of item: "4D"  
 Text string of item: "Three"

Item

Identifier of item: "4C"  
 Text string of item: "Four"

Item

Identifier of item: "4B"

Item	Text string of item:	"Five"
Item	Identifier of item:	"4A"
Item	Text string of item:	"Six"
Item	Identifier of item:	"49"
Item	Text string of item:	"Seven"
Item	Identifier of item:	"48"
Item	Text string of item:	"Eight"
Item	Identifier of item:	"47"
Item	Text string of item:	"Nine"
Item	Identifier of item:	"46"
Item	Text string of item:	"Alpha"
Item	Identifier of item:	"45"
Item	Text string of item:	"Bravo"
Item	Identifier of item:	"44"
Item	Text string of item:	"Charlie"
Item	Identifier of item:	"43"
Item	Text string of item:	"Delta"
Item	Identifier of item:	"42"
Item	Text string of item:	"Echo"
Item	Identifier of item:	"41"
Item	Text string of item:	"Fox-trot"
Item	Identifier of item:	"40"
Item	Text string of item:	"Black"
Item	Identifier of item:	"3F"
Item	Text string of item:	"Brown"
Item	Identifier of item:	"3E"
Item	Text string of item:	"Red"
Item	Identifier of item:	"3D"
Item	Text string of item:	"Orange"
Item	Identifier of item:	"3C"
Item	Text string of item:	"Yellow"
Item	Identifier of item:	"3B"
Item	Text string of item:	"Green"
Item	Identifier of item:	"3A"
Item	Text string of item:	"Blue"
Item	Identifier of item:	"39"
Item	Text string of item:	"Violet"
Item	Identifier of item:	"38"
Item	Text string of item:	"Grey"
Item	Identifier of item:	"37"
Item	Text string of item:	"White"

	Identifier of item:	"36"
	Text string of item:	"milli"
Item	Identifier of item:	"35"
	Text string of item:	"micro"
Item	Identifier of item:	"34"
	Text string of item:	"nano"
Item	Identifier of item:	"33"
	Text string of item:	"pico"

Coding:

BER-TLV:	D0	81	FC	81	03	01	25	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	31
	8F	05	50	5A	65	72	6F	8F	04	4F	4F	6E
	65	8F	04	4E	54	77	6F	8F	06	4D	54	68
	72	65	65	8F	05	4C	46	6F	75	72	8F	05
	4B	46	69	76	65	8F	04	4A	53	69	78	8F
	06	49	53	65	76	65	6E	8F	06	48	45	69
	67	68	74	8F	05	47	4E	69	6E	65	8F	06
	46	41	6C	70	68	61	8F	06	45	42	72	61
	76	6F	8F	08	44	43	68	61	72	6C	69	65
	8F	06	43	44	65	6C	74	61	8F	05	42	45
	63	68	6F	8F	09	41	46	6F	78	2D	74	72
	6F	74	8F	06	40	42	6C	61	63	6B	8F	06
	3F	42	72	6F	77	6E	8F	04	3E	52	65	64
	8F	07	3D	4F	72	61	6E	67	65	8F	07	3C
	59	65	6C	6C	6F	77	8F	06	3B	47	72	65
	65	6E	8F	05	3A	42	6C	75	65	8F	07	39
	56	69	6F	6C	65	74	8F	05	38	47	72	65
	79	8F	06	37	57	68	69	74	65	8F	06	36
	6D	69	6C	6C	69	8F	06	35	6D	69	63	72
	6F	8F	05	34	6E	61	6E	6F	8F	05	33	70
	69	63	6F									

## PROACTIVE COMMAND: SET UP MENU 1.2.2

Logically:

	Command details	
	Command number:	1
	Command type:	SET UP MENU
	Command qualifier:	"00"
Device identities		
	Source device:	SIM
	Destination device:	ME
	Alpha Identifier:	"LargeMenu2"
Item		
	Identifier of item:	"FF"
	Text string of item:	"1 Call Forward Unconditional"
Item		
	Identifier of item:	"FE"
	Text string of item:	"2 Call Forward On User Busy"
Item		
	Identifier of item:	"FD"
	Text string of item:	"3 Call Forward On No Reply"
Item		
	Identifier of item:	"FC"
	Text string of item:	"4 Call Forward On User Not Reachable"
Item		
	Identifier of item:	"FB"

Item Text string of item: "5 Barring Of All Outgoing Calls"  
 Item Identifier of item: "FA"  
 Text string of item: "6 Barring Of All Outgoing Int Calls"  
 Item Identifier of item: "F9"  
 Text string of item: "7 CLI Presentation"

Coding:

BER-TLV:	D0	81	F3	81	03	01	25	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	32
	8F	1D	FF	31	20	43	61	6C	6C	20	46	6F
	72	77	61	72	64	20	55	6E	63	6F	6E	64
	69	74	69	6F	6E	61	6C	8F	1C	FE	32	20
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	20	4F	6E	20	55	73	65	72	20	42	75	73
	79	8F	1B	FD	33	20	43	61	6C	6C	20	46
	6F	72	77	61	72	64	20	4F	6E	20	4E	6F
	20	52	65	70	6C	79	8F	25	FC	34	20	43
	61	6C	6C	20	46	6F	72	77	61	72	64	20
	4F	6E	20	55	73	65	72	20	4E	6F	74	20
	52	65	61	63	68	61	62	6C	65	8F	20	FB
	35	20	42	61	72	72	69	6E	67	20	4F	66
	20	41	6C	6C	20	4F	75	74	67	6F	69	6E
	67	20	43	61	6C	6C	73	8F	24	FA	36	20
	42	61	72	72	69	6 <sup>E</sup>	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	20	43	61	6C	6C	73	8F	13	F9
	37	20	43	4C	49	20	50	72	65	73	65	6E
	74	61	74	69	6F	6E						

### PROACTIVE COMMAND: SET UP MENU 1.2.3

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Alpha Identifier: "The SIM shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items at his own discretion. Each item comprises a sh"  
 Item Identifier of item: "01"  
 Text string of item: "Y"

Coding:

BER-TLV:	D0	81	FC	81	03	01	25	00	82	02	81	82
	85	81	EC	54	68	65	20	53	49	4D	20	73
	68	61	6C	6C	20	73	75	70	70	6C	79	20
	61	20	73	65	74	20	6F	66	20	6D	65	6E
	75	20	69	74	65	6D	73	2C	20	77	68	69
	63	68	20	73	68	61	6C	6C	20	62	65	20
	69	6E	74	65	67	72	61	74	65	64	20	77
	69	74	68	20	74	68	65	20	6D	65	6E	75
	20	73	79	73	74	65	6D	20	28	6F	72	20
	6F	74	68	65	72	20	4D	4D	49	20	66	61
	63	69	6C	69	74	79	29	20	69	6E	20	6F
	72	64	65	72	20	74	6F	20	67	69	76	65
	20	74	68	65	20	75	73	65	72	20	74	68
	65	20	6F	70	70	6F	72	74	75	6E	69	74
	79	20	74	6F	20	63	68	6F	6F	73	65	20
	6F	6E	65	20	6F	66	20	74	68	65	73	65
	20	6D	65	6E	75	20	69	74	65	6D	73	20
	61	74	20	68	69	73	20	6F	77	6E	20	64
	69	73	63	72	65	74	69	6F	6E	2E	20	45
	61	63	68	20	69	74	65	6D	20	63	6F	6D
	70	72	69	73	65	73	20	61	20	73	68	8F
	02	01	59									

TERMINAL RESPONSE: SET UP MENU 1.2.1, 1.2.2 and 1.2.3

Logically:

#### Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "no help information available"

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00
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ENVELOPE 1.2.1: MENU SELECTION

Logically:

#### Menu selection

Device identities  
 Source device: Keypad  
 Destination device: SIM  
 Item identifier 3D

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	3D
----------	----	----	----	----	----	----	----	----	----

ENVELOPE 1.2.2: MENU SELECTION

Logically:

Menu selection

Device identities  
 Source device: Keypad  
 Destination device: SIM  
 Item identifier FB

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	FB
----------	----	----	----	----	----	----	----	----	----

#### ENVELOPE 1.2.3: MENU SELECTION

Logically:

Menu selection

Device identities  
 Source device: Keypad  
 Destination device: SIM  
 Item identifier 01

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	01
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The following table details the test requirements with relation to the tested features:

Proactive SIM Command Facilities			
Proactive SIM 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 11.14 [15] clause 12.21.

##### 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 SIM command, and returns a successful response in the TERMINAL RESPONSE command sent to the SIM.

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 SIM 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 SIM 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 SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 2.1.1	[First Set Up Menu]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND SET UP MENU 2.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" and "Item 4" under this header.	
5	ME → SIM	TERMINAL RESPONSE: SET UP MENU 2.1.1	[Command Performed Successfully]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2", "Item 3", "Item 4"	
9	USER → ME	Select the Help Request on "Item 2" Menu entry	
10	ME → SIM	Send the ENVELOPE 2.1.1: MENU SELECTION (Identifier of item: 2)	

#### PROACTIVE COMMAND: SET UP MENU 2.1.1

Logically:

##### Command details

Command number: 1  
Command type: SET UP MENU  
Command qualifier: "80"

##### Device identities

Source device: SIM  
Destination device: ME  
Alpha identifier: "Toolkit Menu"

##### Item

Identifier of item: 1  
Text string of item: "Item 1"

##### Item

Identifier of item: 2  
Text string of item: "Item 2"

##### Item

Identifier of item: 3  
 Text string of item: "Item 3"  
 Item  
 Identifier of item:4  
 Text string of item: "Item 4"

Coding:

BER-TLV:	D0	3B	81	03	01	25	80	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	8F	07	04	49	74	65	6D	20
	34											

#### TERMINAL RESPONSE: SET UP MENU 2.1.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: " help information available"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	80	82	02	82	81	83	01	00
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#### ENVELOPE 2.1.1: MENU SELECTION

Logically:

Menu selection  
 Device identities  
 Source device: Keypad  
 Destination device: SIM  
 Item identifier 02  
 Help request tag

Coding:

BER-TLV:	D3	09	82	02	01	81	90	01	02	15	00
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#### 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 SIM 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 11.14 [15] clause 12.24.

## 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 SIM command, and returns a successful response in the TERMINAL RESPONSE command sent to the SIM.

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 SIM 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 SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 3.1.1	[First Set Up Menu]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND SET UP MENU 3.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" and "Item 4" under this header.	
5	ME → SIM	TERMINAL RESPONSE: SET UP MENU 3.1.1	[Command Performed Successfully]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2", "Item 3", "Item 4"	The ME may indicate to the user the consequences of performing the selection of an item.
9	USER → ME	Navigate in the items, then select "Item 2".	The ME may indicate to the user the consequences of performing the selection of an item.
10	ME → SIM	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

## ENVELOPE 3.1.1: MENU SELECTION

Logically:

Menu selection

Device identities  
 Source device: Keypad  
 Destination device: SIM  
 Item identifier 02

Coding:

BER-TLV:	D3	07	82	02	01	81	90	01	02		
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PROACTIVE COMMAND: SET UP MENU 3.1.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Menu"  
 Item  
 Identifier of item: 1  
 Text string of item: "Item 1"  
 Item  
 Identifier of item: 2  
 Text string of item: "Item 2"  
 Item  
 Identifier of item: 3  
 Text string of item: "Item 3"  
 Item  
 Identifier of item: 4  
 Text string of item: "Item 4"  
 Items next action indicator list  
 List: "Send SM", "Set Up Call", "Launch Browser", "Provide Local Information"

Coding:

BER-TLV:	D0	41	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	8F	07	04	49	74	65	6D	20
	34	18	04	13	10	15	26					

TERMINAL RESPONSE: SET UP MENU 3.1.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "no help information available"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00
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#### 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:

- TS 11.14 [15] clause 6.5.4, 12.31 and 12.32.

##### 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 SIM command, and returns a successful response in the TERMINAL RESPONSE command sent to the SIM.

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 SIM 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 SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 4.1.1	[First Set Up Menu]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND SET UP MENU 4.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → SIM	TERMINAL RESPONSE: SET UP MENU 4.1.1A	[Command Performed Successfully]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	Verify the icon is displayed with alpha id.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	
9	USER → ME	Navigate in the items, then select "Item 2".	Verify icons are displayed for each item.
10	ME → SIM	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

## PROACTIVE COMMAND: SET UP MENU 4.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Menu"

## Item

Identifier of item: 1  
 Text string of item: "Item 1"

## Item

Identifier of item: 2  
 Text string of item: "Item 2"

## Item

Identifier of item: 3  
 Text string of item: "Item 3"

## Icon identifier

Icon qualifier: icon is not self explanatory  
 Icon identifier: record 1 EF (IMG)

## Item icon identifier list

Icon qualifier: icon is not self explanatory  
 Icon identifier list: record 5 EF (IMG), record 5 EF (IMG), record 5 EF (IMG)

Coding:

BER-TLV:	D0	3C	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	9E	02	01	01	9F	04	01	05
	05	05										

TERMINAL RESPONSE: SET UP MENU 4.1.1A

Logically:

Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "no help information available"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00
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**Expected Sequence 4.1B (SET UP MENU, BASIC ICON NOT SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, requested icon could not be displayed)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 4.1.1	[First Set Up Menu]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND SET UP MENU 4.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → SIM	TERMINAL RESPONSE: SET UP MENU 4.1.1B	[Command performed successfully, but requested icon could not be displayed]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2", "Item 3" under the header "Toolkit Menu".	Verify that either for the header or for each of the items no icon is displayed
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → SIM	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

TERMINAL RESPONSE: SET UP MENU 4.1.1B

Logically:

Command details

Command number: 1  
 Command type: SET UP MENU

Command qualifier: "no help information available"  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	04
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**Expected Sequence 4.2A (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, successful)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 4.2.1	[First Set Up Menu]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND SET UP MENU 4.2.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → SIM	TERMINAL RESPONSE: SET UP MENU 4.2.1A	[Command Performed Successfully]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	Verify the icon is displayed in alpha id.
8	ME → USER	Display "Item 1", "Item 2", "Item 3".	
9	USER → ME	Navigate in the items, then select "Item 2".	Verify icons are displayed for each item.
10	ME → SIM	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

**PROACTIVE COMMAND: SET UP MENU 4.2.1**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "00"  
 Device identities  
   Source device: SIM  
   Destination device: ME  
   Alpha identifier: "Toolkit Menu"  
 Item  
   Identifier of item: 1  
   Text string of item: "Item 1"  
 Item  
   Identifier of item: 2  
   Text string of item: "Item 2"  
 Item  
   Identifier of item: 3  
   Text string of item: "Item 3"  
 Icon identifier  
   Icon qualifier: icon is self explanatory  
   Icon identifier: record 1 EF (IMG)  
 Item icon identifier list

Icon qualifier: icon is self explanatory  
 Icon identifier list: record 5 EF (IMG), record 5 EF (IMG), record 5 EF (IMG)

Coding:

BER-TLV:	D0	3C	81	03	01	25	00	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32	8F	07	03	49	74
	65	6D	20	33	9E	02	00	01	9F	04	00	05
	05	05										

TERMINAL RESPONSE: SET UP MENU 4.2.1A

Logically:

#### Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "no help information available"

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	00
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**Expected Sequence 4.2B (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, requested icon could not be displayed)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 4.2.1	[First Set Up Menu]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND SET UP MENU 4.2.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" under this header.	
5	ME → SIM	TERMINAL RESPONSE: SET UP MENU 4.2.1B	[Command Performed Successfully]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2", "Item 3" under the header "Toolkit Menu".	Verify that either for the header or for each of the items no icon is displayed
9	USER → ME	Navigate in the items, then select "Item 2".	
10	ME → SIM	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

TERMINAL RESPONSE: SET UP MENU 4.2.1B

Logically:

#### Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "no help information available"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	25	00	82	02	82	81	83	01	04
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#### 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 SIM command, and returns a successful response in the TERMINAL RESPONSE command sent to the SIM.

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 SIM 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 SIM 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)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP MENU 5.1.1	[First Set Up Menu]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND SET UP MENU 5.1.1	
4	ME → USER	Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2" under this header.	
5	ME → SIM	TERMINAL RESPONSE: SET UP MENU 5.1.1	[Command Performed Successfully]
6	SIM → ME	PROACTIVE SIM SESSION ENDED	
7	USER → ME	Select the Toolkit Menu "Toolkit Menu"	
8	ME → USER	Display "Item 1", "Item 2"	
9	USER → ME	Navigate in the items, then select "Item 2".	Verify we can select items through soft keys
10	ME → SIM	Send the ENVELOPE 3.1.1: MENU SELECTION (Identifier of item: 2)	

## PROACTIVE COMMAND: SET UP MENU 5.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: '01' (selection using soft key preferred)

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Menu"

## Item

Identifier of item: 1  
 Text string of item: "Item 1"

## Item

Identifier of item: 2  
 Text string of item: "Item 2"

Coding:

BER-TLV:	D0	29	81	03	01	25	01	82	02	81	82	85
	0C	54	6F	6F	6C	6B	69	74	20	4D	65	6E
	75	8F	07	01	49	74	65	6D	20	31	8F	07
	02	49	74	65	6D	20	32					

## TERMINAL RESPONSE: SET UP MENU 5.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: '01' (selection using soft key preferred)

## Device identities

Source device: ME

Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	25	01	82	02	82	81	83	01	00
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#### 27.22.4.8.5.5 Test requirement

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

### 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 SIM: Select Item facility as defined in the following technical specifications:

- TS 11.14 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 12.6, clause 13.4 and clause 14.

##### 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 SIM command, and returns a TERMINAL RESPONSE command to the SIM with the identifier of the item chosen.

To verify that the ME allows a SELECT ITEM proactive SIM command within the maximum 255 byte BER-TLV boundary.

To verify that the ME returns a TERMINAL RESPONSE with "Proactive SIM application session terminated by the user", if the user has indicated the need to end the proactive SIM session.

To verify that the ME returns a TERMINAL RESPONSE with "Backwards move in the proactive SIM application session requested by the user", if the user has indicated the need to go backwards in the proactive SIM 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 SIM 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.1.1	
4	ME → USER	Display items of "Item 1", "Item 2", "Item 3" and "Item 4" under the header of "Toolkit Select".	
5	USER → ME	Select "Item 2".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.1.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Select"

## Item

Identifier of item: 1  
 Text string of item: "Item 1"

## Item

Identifier of item: 2  
 Text string of item: "Item 2"

## Item

Identifier of item: 3  
 Text string of item: "Item 3"

## Item

Identifier of item: 4  
 Text string of item: "Item 4"

Coding:

BER-TLV:	D0	3D	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	8F	07	04	49	74	65
	6D	20	34									

TERMINAL RESPONSE: SELECT ITEM 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Item identifier

Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

### Expected Sequence 1.2 (SELECT ITEM, large menu, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.2.1	
4	ME → USER	Present the items of "Zero", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine", "Alpha", "Bravo", "Charlie", "Delta", "Echo", "Fox-trot", "Black", "Brown", "Red", "Orange", "Yellow", "Green", "Blue", "Violet", "Grey", "White", "milli", "micro", "nano" and "pico" under the header of "LargeMenu1"	
5	USER → ME	Select item "Orange".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.2.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 1.2.1

Logically:

Command details

Command number: 1  
Command type: SELECT ITEM  
Command qualifier: "00"

Device identities

Source device: SIM  
Destination device: ME  
Alpha identifier: "LargeMenu1"

Item

Identifier of item: "50"  
Text string of item: "Zero"

Item

Identifier of item: "4F"  
Text string of item: "One"

Item

Identifier of item: "4E"  
Text string of item: "Two"

Item

Identifier of item: "4D"  
Text string of item: "Three"

Item

Identifier of item: "4C"  
Text string of item: "Four"

Item

Identifier of item: "4B"  
Text string of item: "Five"

Item

Identifier of item: "4A"  
Text string of item: "Six"

Item	Identifier of item:	"49"
	Text string of item:	"Seven"
Item	Identifier of item:	"48"
	Text string of item:	"Eight"
Item	Identifier of item:	"47"
	Text string of item:	"Nine"
Item	Identifier of item:	"46"
	Text string of item:	"Alpha"
Item	Identifier of item:	"45"
	Text string of item:	"Bravo"
Item	Identifier of item:	"44"
	Text string of item:	"Charlie"
Item	Identifier of item:	"43"
	Text string of item:	"Delta"
Item	Identifier of item:	"42"
	Text string of item:	"Echo"
Item	Identifier of item:	"41"
	Text string of item:	"Fox-trot"
Item	Identifier of item:	"40"
	Text string of item:	"Black"
Item	Identifier of item:	"3F"
	Text string of item:	"Brown"
Item	Identifier of item:	"3E"
	Text string of item:	"Red"
Item	Identifier of item:	"3D"
	Text string of item:	"Orange"
Item	Identifier of item:	"3C"
	Text string of item:	"Yellow"
Item	Identifier of item:	"3B"
	Text string of item:	"Green"
Item	Identifier of item:	"3A"
	Text string of item:	"Blue"
Item	Identifier of item:	"39"
	Text string of item:	"Violet"
Item	Identifier of item:	"38"
	Text string of item:	"Grey"
Item	Identifier of item:	"37"
	Text string of item:	"White"
Item	Identifier of item:	"36"
	Text string of item:	"milli"
Item	Identifier of item:	"35"

Text string of item: "micro"  
 Item  
 Identifier of item: "34"  
 Text string of item: "nano"  
 Item  
 Identifier of item: "33"  
 Text string of item: "pico"

Coding:

BER-TLV:	D0	81	FC	81	03	01	24	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	31
	8F	05	50	5A	65	72	6F	8F	04	4F	4F	6E
	65	8F	04	4E	54	77	6F	8F	06	4D	54	68
	72	65	65	8F	05	4C	46	6F	75	72	8F	05
	4B	46	69	76	65	8F	04	4A	53	69	78	8F
	06	49	53	65	76	65	6E	8F	06	48	45	69
	67	68	74	8F	05	47	4E	69	6E	65	8F	06
	46	41	6C	70	68	61	8F	06	45	42	72	61
	76	6F	8F	08	44	43	68	61	72	6C	69	65
	8F	06	43	44	65	6C	74	61	8F	05	42	45
	63	68	6F	8F	09	41	46	6F	78	2D	74	72
	6F	74	8F	06	40	42	6C	61	63	6B	8F	06
	3F	42	72	6F	77	6E	8F	04	3E	52	65	64
	8F	07	3D	4F	72	61	6E	67	65	8F	07	3C
	59	65	6C	6C	6F	77	8F	06	3B	47	72	65
	65	6E	8F	05	3A	42	6C	75	65	8F	07	39
	56	69	6F	6C	65	74	8F	05	38	47	72	65
	79	8F	06	37	57	68	69	74	65	8F	06	36
	6D	69	6C	6C	69	8F	06	35	6D	69	63	72
	6F	8F	05	34	6E	61	6E	6F	8F	05	33	70
	69	63	6F									

TERMINAL RESPONSE: SELECT ITEM 1.2.1

Logically:

Command details  
 Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Item identifier  
 Identifier of item chosen: 3D

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	3D									

## Expected Sequence 1.3 (SELECT ITEM, call options, successful)

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.3.1	
4	ME → USER	Present the items of " Call Forwarding Unconditional", "Call Forwarding On User Busy", "Call Forwarding On No Reply", "Call Forwarding On User Not Reachable", "Barring Of All Outgoing Calls", "Barring Of All Outgoing International Calls" and "CLI Presentation" under the header of " LargeMenu2	
5	USER → ME	Select item "Barring Of All Outgoing Calls".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.3.1	Command performed successfully
7	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : SELECT ITEM 1.3.1

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "LargeMenu2"

## Item

Identifier of item: "FF"  
 Text string of item: "Call Forwarding Unconditional"

## Item

Identifier of item: "FE"  
 Text string of item: "Call Forwarding On User Busy"

## Item

Identifier of item: "FD"  
 Text string of item: "Call Forwarding On No Reply"

## Item

Identifier of item: "FC"  
 Text string of item: "Call Forwarding On User Not Reachable"

## Item

Identifier of item: "FB"  
 Text string of item: "Barring Of All Outgoing Calls"

## Item

Identifier of item: "FA"  
 Text string of item: "Barring Of All Outgoing International Calls"

## Item

Identifier of item: "F9"  
 Text string of item: "CLI Presentation"

Coding:

BER-TLV:	D0	81	FB	81	03	01	24	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	32
	8F	1E	FF	43	61	6C	6C	20	46	6F	72	77
	61	72	64	69	6E	67	20	55	6E	63	6F	6E
	64	69	74	69	6F	6E	61	6C	8F	1D	FE	43
	61	6C	6C	20	46	6F	72	77	61	72	64	69
	6E	67	20	4F	6E	20	55	73	65	72	20	42
	75	73	79	8F	1C	FD	43	61	6C	6C	20	46
	6F	72	77	61	72	64	69	6E	67	20	4F	6E
	20	4E	6F	20	52	65	70	6C	79	8F	26	FC
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	69	6E	67	20	4F	6E	20	55	73	65	72	20
	4E	6F	74	20	52	65	61	63	68	61	62	6C
	65	8F	1E	FB	42	61	72	72	69	6E	67	20
	4F	66	20	41	6C	6C	20	4F	75	74	67	6F
	69	6E	67	20	43	61	6C	6C	73	8F	2C	FA
	42	61	72	72	69	6 <sup>E</sup>	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	65	72	6E	61	74	69	6F	6E	61
	6C	20	43	61	6C	6C	73	8F	11	F9	43	4C
	49	20	50	72	65	73	65	6E	74	61	74	69
	6F	6E										

TERMINAL RESPONSE: SELECT ITEM 1.3.1

Logically:

#### Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

General Result: Command performed successfully

#### Item identifier

Identifier of item chosen: FB

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	FB									

## Expected Sequence 1.4 (SELECT ITEM, backward move by user, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.4.1	[
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.4.1	
4	ME → USER	Present the items of "One" and "Two" under the header of "Select Item".	
5	USER → ME	Indicate to go backwards in the proactive SIM application session.	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.4.1A or TERMINAL RESPONSE: SELECT ITEM 1.4.1B	Backward move in the proactive SIM application session requested by user
7	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.4.2	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.4.2	
10	ME → USER	Present the items of "One" and "Two" under the header of "Select Item".	
11	USER → ME	Indicate to end the proactive SIM application and return the ME to normal operation.	
12	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.4.2A or TERMINAL RESPONSE: SELECT ITEM 1.4.2B	Proactive SIM application terminated by the user
13	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND: SELECT ITEM 1.4.1 and 1.4.2

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Select Item"

## Item

Identifier of item: "11"  
 Text string of item: "One"

## Item

Identifier of item: "12"  
 Text string of item: "Two"

Coding:

BER-TLV:	D0	22	81	03	01	24	00	82	02	81	82	85
	0B	53	65	6C	65	63	74	20	49	74	65	6D
	8F	04	11	4F	6E	65	8F	04	12	54	77	6F

TERMINAL RESPONSE: SELECT ITEM 1.4.1A

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	11
----------	----	----	----	----	----	----	----	----	----	----	----	----

TERMINAL RESPONSE: SELECT ITEM 1.4.1B

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Item identifier

Identifier of item chosen: XX

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	11
	90	01	XX									

TERMINAL RESPONSE: SELECT ITEM 1.4.2A

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: proactive SIM session terminated by the user

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	10
----------	----	----	----	----	----	----	----	----	----	----	----	----

TERMINAL RESPONSE: SELECT ITEM 1.4.2B

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM

Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: proactive SIM session terminated by the user  
 Item identifier  
   Identifier of item chosen: XX

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	10
	90	01	XX									

#### Expected Sequence 1.5 (SELECT ITEM, "Y", successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.5.1	
4	ME → USER	Present the items of "Y" under the header of "The SIM shall supply a set of items from which the user may choose one. Each item comprises a short identifier (used to indicate the selection) and a text string. Optionally the SIM may include an alpha identifier. The alpha identifier i". Select item "Y"	
5	USER → ME		
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.5.1	Command performed successfully
7	SIM → ME	PROACTIVE SIM SESSION ENDED	

#### PROACTIVE COMMAND: SELECT ITEM 1.5.1

Logically:

Command details  
 Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"  
 Device identities  
   Source device: SIM  
   Destination device: ME  
   Alpha identifier: "The SIM shall supply a set of items from which the user may choose one. Each item comprises a short identifier (used to indicate the selection) and a text string. Optionally the SIM may include an alpha identifier. The alpha identifier i"  
 Item  
   Identifier of item: "01"  
   Text string of item: "Y"

Coding:

BER-TLV:	D0	81	FD	81	03	01	24	00	82	02	81	82
	85	81	ED	54	68	65	20	53	49	4D	20	73
	68	61	6C	6C	20	73	75	70	70	6C	79	20
	61	20	73	65	74	20	6F	66	20	69	74	65
	6D	73	20	66	72	6F	6D	20	77	68	69	63
	68	20	74	68	65	20	75	73	65	72	20	6D
	61	79	20	63	68	6F	6F	73	65	20	6F	6E
	65	2E	20	45	61	63	68	20	69	74	65	6D
	20	63	6F	6D	70	72	69	73	65	73	20	61
	20	73	68	6F	72	74	20	69	64	65	6E	74
	69	66	69	65	72	20	28	75	73	65	64	20
	74	6F	20	69	6E	64	69	63	61	74	65	20
	74	68	65	20	73	65	6C	65	63	74	69	6F
	6E	29	20	61	6E	64	20	61	20	74	65	78
	74	20	73	74	72	69	6E	67	2E	20	4F	70
	74	69	6F	6E	61	6C	6C	79	20	74	68	65
	20	53	49	4D	20	6D	61	79	20	69	6E	63
	6C	75	64	65	20	61	6E	20	61	6C	70	68
	61	20	69	64	65	6E	74	69	66	69	65	72
	2E	20	54	68	65	20	61	6C	70	68	61	20
	69	64	65	6E	74	69	66	69	65	72	20	
	69	8F	02	01	59							

TERMINAL RESPONSE: SELECT ITEM 1.5.1

Logically:

#### Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

General Result: Command performed successfully

#### Item identifier

Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

## Expected Sequence 1.6 (SELECT ITEM, Large menu, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.6.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.6.1	
4	ME → USER	Present the items of "1 Call Forward Unconditional", "2 Call Forward On User Busy", "3 Call Forward On No Reply", "4 Call Forward On User Not Reachable", "5 Barring Of All Outgoing Calls", "6 Barring Of All Outgoing Int Calls" and "7 CLI Presentation" under the header of "OLargeMenu".	
5	USER → ME	Select item "5 Barring Of All Outgoing Calls".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.6.1	Command performed successfully

PROACTIVE COMMAND : SELECT ITEM 1.6.1

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "OLargeMenu"

## Item

Identifier of item: "FF"  
 Text string of item: "1 Call Forward Unconditional"

## Item

Identifier of item: "FE"  
 Text string of item: "2 Call Forward On User Busy"

## Item

Identifier of item: "FD"  
 Text string of item: "3 Call Forward On No Reply"

## Item

Identifier of item: "FC"  
 Text string of item: "4 Call Forward On User Not Reachable"

## Item

Identifier of item: "FB"  
 Text string of item: "5 Barring Of All Outgoing Calls"

## Item

Identifier of item: "FA"  
 Text string of item: "6 Barring Of All Outgoing Int Calls"

## Item

Identifier of item: "F9"  
 Text string of item: "7 CLI Presentation"

Coding:

BER-TLV:	D0	81	F3	81	03	01	24	00	82	02	81	82
	85	0A	30	4C	61	72	67	65	4D	65	6E	75
	8F	1D	FF	31	20	43	61	6C	6C	20	46	6F
	72	77	61	72	64	20	55	6E	63	6F	6E	64
	69	74	69	6F	6E	61	6C	8F	1C	FE	32	20
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	20	4F	6E	20	55	73	65	72	20	42	75	73
	79	8F	1B	FD	33	20	43	61	6C	6C	20	46
	6F	72	77	61	72	64	20	4F	6E	20	4E	6F
	20	52	65	70	6C	79	8F	25	FC	34	20	43
	61	6C	6C	20	46	6F	72	77	61	72	64	20
	4F	6E	20	55	73	65	72	20	4E	6F	74	20
	52	65	61	63	68	61	62	6C	65	8F	20	FB
	35	20	42	61	72	72	69	6E	67	20	4F	66
	20	41	6C	6C	20	4F	75	74	67	6F	69	6E
	67	20	43	61	6C	6C	73	8F	24	FA	36	20
	42	61	72	72	69	6F	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	20	43	61	6C	6C	73	8F	13	F9
	37	20	43	4C	49	20	50	72	65	73	65	6E
	74	61	74	69	6F	6E						

TERMINAL RESPONSE: SELECT ITEM 1.6.1

Logically:

#### Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

General Result: Command performed successfully

#### Item identifier

Identifier of item chosen: FB

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	FB									

The following table details the test commands with relation to the tested features:

Proactive SIM Command Facilities			
Proactive SIM 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 SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 2.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	The ME may indicate to the user the consequences of performing the selection of an item.
5	USER → ME	Navigate in the items, then select "Item 2".	The ME may indicate to the user the consequences of performing the selection of an item.
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 2.1.1	Command performed successfully

PROACTIVE COMMAND: SELECT ITEM 2.1.1

Logically:

Command details

Command number:	1
Command type:	SELECT ITEM
Command qualifier:	"00"

Device identities

Source device:	SIM
Destination device:	ME
Alpha identifier:	"Toolkit Select"

Item

Identifier of item:	1
Text string of item:	"Item 1"

Item

Identifier of item:	2
Text string of item:	"Item 2"

Item

Identifier of item:	3
---------------------	---

Text string of item: "Item 3"  
 Items next action indicator  
 Items list "Send SM", "Set Up Call", "Provide Local Info."

Coding:

BER-TLV:	D0	39	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	18	03	13	10	26	

TERMINAL RESPONSE: SELECT ITEM 2.1.1

Logically:

Command details  
 Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Item identifier  
 Identifier of item chosen: 02

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	02									

#### 27.22.4.9.2.5 Test requirement

The 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 SIM 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 3.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 3.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Check that "Item 2" is selected by default. [Note: It is not mandatory that "Item 2" is selected by default]
5	USER → ME	Navigate in the items, then select "Item 3".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 3.1.1	Command performed successfully

PROACTIVE COMMAND : SELECT ITEM 3.1.1

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Select"

## Item

Identifier of item: 01  
 Text string of item: "Item 1"

## Item

Identifier of item: 02  
 Text string of item: "Item 2"

## Item

Identifier of item: 03  
 Text string of item: "Item 3"

## Item identifier

Identifier of item chosen 02

Coding:

BER-TLV:	D0	37	81	03	01	24	00	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	10	01	02			

TERMINAL RESPONSE: SELECT ITEM 3.1.1

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Item identifier

Identifier of item chosen: 03

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	03									

#### 27.22.4.9.3.5 Test requirement

The 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 SIM 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)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 4.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 4.1.1	[Help information available]
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	
5	USER → ME	Navigate in the items until "Item 1".	
6	USER → ME	Select the Help Request on "Item 1" Menu entry	
7	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 4.1.1	[Help information required by the user]

PROACTIVE COMMAND : SELECT ITEM 4.1.1

Logically:

Command details

Command number: 1

Command type: SELECT ITEM

Command qualifier: "80" help information available  
 Device identities  
   Source device: SIM  
   Destination device: ME  
   Alpha identifier: "Toolkit Select"  
 Item  
   Identifier of item: 01  
   Text string of item: "Item 1"  
 Item  
   Identifier of item: 02  
   Text string of item: "Item 2"  
 Item  
   Identifier of item: 03  
   Text string of item: "Item 3"

Coding:

BER-TLV:	D0	34	81	03	01	24	80	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33						

TERMINAL RESPONSE: SELECT ITEM 4.1.1

Logically:

Command details  
   Command number: 1  
   Command type: SELECT ITEM  
   Command qualifier: "80"  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Help information required by the user  
 Item identifier  
   Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	80	82	02	82	81	83	01	13
	90	01	01									

#### 27.22.4.9.4.5 Test requirement

The 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 11.14 [15] clause 12.31 and clause 12.32.

##### 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 SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 5.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 5.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify icons are displayed in the alpha identifier and in the 3 items.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 5.1.1 A	[command performed successfully]

## PROACTIVE COMMAND: SELECT ITEM 5.1.1

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Select"

## Item

Identifier of item: 01  
 Text string of item: "Item 1"

## Item

Identifier of item: 02  
 Text string of item: "Item 2"

## Item

Identifier of item: 03  
 Text string of item: "Item 3"

## Icon Identifier:

Icon qualifier: "01" (icon is not self-explanatory)  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

## Item icon identifier list:

Icon qualifier: "01" (icon is not self-explanatory)  
 Icon Identifier: record 5 in EF<sub>(IMG)</sub>, record 5 in EF<sub>(IMG)</sub>, record 5 in EF<sub>(IMG)</sub>

Coding:

BER-TLV:	D0	3 <sup>E</sup>	81	03	01	24	00	82	02	81	82	85
	0 <sup>E</sup>	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	9E	02	01	01	9F	04
	01	05	05	05								

TERMINAL RESPONSE: SELECT ITEM 5.1.1A

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Item identifier

Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

**Expected Sequence 5.1B (SELECT ITEM, BASIC ICON NOT SELF EXPLANATORY, requested icon could not be displayed)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 5.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 5.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify that either for the header or for each of the items no icon is displayed..
5	USER → ME	Navigate in the items, then select "Item 1" under the header "Toolkit Select".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 5.1.1 B	[Command performed successfully, but requested icon could not be displayed]

TERMINAL RESPONSE: SELECT ITEM 5.1.1B

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Item identifier

Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	04
	90	01	01									

#### Expected Sequence 5.2A (SELECT ITEM, BASIC ICON SELF EXPLANATORY, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 5.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 5.2.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify icons are displayed without text as alpha id and for the all 3 items.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 5.2.1 A	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 5.2.1

Logically:

##### Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

##### Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Select"

##### Item

Identifier of item: 01  
 Text string of item: "Item 1"

##### Item

Identifier of item: 02  
 Text string of item: "Item 2"

##### Item

Identifier of item: 03  
 Text string of item: "Item 3"

##### Icon Identifier:

Icon qualifier: "00" (icon is self-explanatory)  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

##### Item icon identifier list:

Icon qualifier: "00" (icon is self-explanatory)  
 Icon Identifier: record 5 in EF<sub>(IMG)</sub>, record 5 in EF<sub>(IMG)</sub>, record 5 in EF<sub>(IMG)</sub>

Coding:

BER-TLV:	D0	3 <sup>E</sup>	81	03	01	24	00	82	02	81	82	85
	0 <sup>E</sup>	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33	9E	02	00	01	9F	04
	00	05	05	05								

TERMINAL RESPONSE: SELECT ITEM 5.2.1A

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Item identifier

Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	00
	90	01	01									

**Expected Sequence 5.2B (SELECT ITEM, BASIC ICON SELF EXPLANATORY, requested icon could not be displayed)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 5.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 5.2.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify that either for the header or for each of the items no icon is displayed.
5	USER → ME	Navigate in the items, then select "Item 1" under the header "Toolkit Select".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 5.2.1B	[command performed successfully but requested icon could not be displayed]

TERMINAL RESPONSE: SELECT ITEM 5.2.1B

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Item identifier

Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	04
	90	01	01									

#### 27.22.4.9.5.5 Test requirement

The 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 SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 6.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 6.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify if presentation style appears.
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 6.1.1	[command performed successfully]

## PROACTIVE COMMAND : SELECT ITEM 6.1.1

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "03" (presentation as a choice of navigation options)

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Select"

## Item

Identifier of item: 01  
 Text string of item: "Item 1"

## Item

Identifier of item: 02  
 Text string of item: "Item 2"

## Item

Identifier of item: 03

Text string of item: "Item 3"

Coding:

BER-TLV:	D0	34	81	03	01	24	03	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33						

TERMINAL RESPONSE: SELECT ITEM 6.1.1

Logically:

#### Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "03" (presentation as a choice of navigation options)

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

General Result: Command performed successfully

#### Item identifier

Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	03	82	02	82	81	83	01	00
	90	01	01									

### Expected Sequence 6.2 (SELECT ITEM, PRESENTATION AS A CHOICE OF DATA VALUES, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 6.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 6.2.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Verify if presentation style appears
5	USER → ME	Navigate in the items, then select "Item 1".	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 6.2.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 6.2.1

Logically:

#### Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "01" (presentation as a choice of data values)

#### Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Select"

#### Item

Identifier of item: 01  
 Text string of item: "Item 1"

#### Item

	Identifier of item:	02
	Text string of item:	"Item 2"
Item		
	Identifier of item:	03
	Text string of item:	"Item 3"

Coding:

BER-TLV:	D0	34	81	03	01	24	01	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32	8F	07	03
	49	74	65	6D	20	33						

TERMINAL RESPONSE: SELECT ITEM 6.2.1

Logically:

Command details	
Command number:	1
Command type:	SELECT ITEM
Command qualifier:	"01"(presentation as a choice of data values)
Device identities	
Source device:	ME
Destination device:	SIM
Result	
General Result:	Command performed successfully
Item identifier	
Identifier of item chosen:	01

Coding:

BER-TLV:	81	03	01	24	01	82	02	82	81	83	01	00
	90	01	01									

#### 27.22.4.9.6.5 Test requirement

The 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 SIM 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 7.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 7.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" under the header of "Toolkit Select".	
5	USER → ME	Navigate in the items, then select "Item 1".	Verify that we can choose an item through soft keys
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 7.1.1	[command performed successfully]

PROACTIVE COMMAND: SELECT ITEM 7.1.1

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "04" (selection using soft keys preferred)

Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Select"

Item

Identifier of item: 01  
 Text string of item: "Item 1"

Item

Identifier of item: 02  
 Text string of item: "Item 2"

Coding:

BER-TLV:	D0	2B	81	03	01	24	04	82	02	81	82	85
	0E	54	6F	6F	6C	6B	69	74	20	53	65	6C
	65	63	74	8F	07	01	49	74	65	6D	20	31
	8F	07	02	49	74	65	6D	20	32			

TERMINAL RESPONSE: SELECT ITEM 7.1.1

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "04" (selection using soft keys preferred)

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Item identifier

Identifier of item chosen: 01

Coding:

BER-TLV:	81	03	01	24	04	82	02	82	81	83	01	00
	90	01	01									

#### 27.22.4.9.7.5 Test requirement

The 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 SIM.

##### 27.22.4.9.8.4 Method of test

###### 27.22.4.9.8.4.1 Initial conditions

The ME is connected to the SIM 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.

The SIM simulator shall be set to that period of time.

###### 27.22.4.9.8.4.2 Procedure

##### Expected Sequence 8.1 (SELECT ITEM, no response from user)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 8.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 8.1.1	
4	ME → USER	Display items of "Item 1", "Item 2" and "Item 3" under the header of "<TIME-OUT>".	
5	USER	Waiting and no completion	
6	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 8.1.1	[No response from user] within 5 s after the end of that defined period of time
7	USER	Check if the delay of TERMINAL RESPONSE is reasonable or not	

PROACTIVE COMMAND : SELECT ITEM 8.1.1

Logically:

Command details

Command number:	1
Command type:	SELECT ITEM
Command qualifier:	"00"

Device identities

Source device:	SIM
Destination device:	ME
Alpha identifier:	"<TIME-OUT>"

Item

Identifier of item:	01
Text string of item:	"Item 1"

Item

Identifier of item:	02
Text string of item:	"Item 2"

Item

Identifier of item:	03
Text string of item:	"Item 3"

Coding:

BER-TLV:	D0	30	81	03	01	24	00	82	02	81	82	85
	0A	3C	54	49	4D	45	2D	4F	55	54	3E	8F
	07	01	49	74	65	6D	20	31	8F	07	02	49
	74	65	6D	20	32	8F	07	03	49	74	65	6D
	20	33										

TERMINAL RESPONSE: SELECT ITEM 8.1.1

Logically:

Command details

Command number:	1
Command type:	SELECT ITEM
Command qualifier:	"00"

Device identities

Source device:	ME
Destination device:	SIM

Result

General Result:	No response from user
-----------------	-----------------------

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	12
----------	----	----	----	----	----	----	----	----	----	----	----	----

#### 27.22.4.9.8.5 Test requirement

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

#### 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 SIM: SEND SHORT MESSAGE facility as defined in:

- TS 11.14 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 12.6, clause 12.7, clause 12.2, clause 12.1, clause 12.13, clause 12.31 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 (System Simulator) as indicated in the SEND SHORT MESSAGE proactive SIM command, and returns a TERMINAL RESPONSE command to the SIM 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 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 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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.1	
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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: SIM  
 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:	SIM
Result	
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00
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### Expected Sequence 1.2 (SEND SHORT MESSAGE, packing required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.2.1	[packing required, 8-bit data]
4	ME → USER	Display "Send SM"	
5	ME → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.2	[Alpha Identifier]
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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: SIM  
 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:	SIM
Result	
General Result:	Command performed successfully

Coding:

BER-TLV:	81	03	01	13	01	82	02	82	81	83	01	00
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## Expected Sequence 1.3 (SEND SHORT MESSAGE, packing not required, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.3.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Short Message"	
5	ME → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.3	[Alpha Identifier]
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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: SIM  
 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:	SIM

## Result

General Result:	Command performed successfully
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Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00
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**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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.4. 1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	Send SMS-PP(SEND SHORT MESSAGE) Message 1.4	[message of 140 bytes user data]
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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: SIM  
 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
	4 <sup>E</sup>	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 <sup>E</sup>	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												
TP-RD												
TP-VPF												
TP-RP												
TP-UDHI												
TP-SRR												
TP-MR												
TP-DA												
TON												
NPI												
Address value												
TP-PID												
TP-DCS												
Message coding												
Message class												
TP-UDL												
TP-UD												

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 <sup>E</sup>	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:	SIM		
Result			

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	01	82	02	82	81	83	01	00
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**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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.5.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.5	[message of 140 bytes user data]
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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: SIM  
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 <sup>E</sup>	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 <sup>E</sup>	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: SIM

## Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00
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## Expected Sequence 1.6 (SEND SHORT MESSAGE, alpha identifier 160 bytes long, SMS default alphabet, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.6.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.6	
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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: SIM

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	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	61	72	65	6E	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:	SIM
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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.7.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.7.1	[packing not required, 8-bit data]
4	ME	No information to user	
5	ME → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.7	[Alpha identifier length '00']
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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:	SIM
Destination device:	Network
Alpha identifier:	
Address	
TON:	International number

NPI:	"ISDN / telephone numbering plan"
Dialling number string	"112233445566778"
<b>SMS TPDU</b>	
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:

<b>SMS TPDU</b>	
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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.8.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 1.8	
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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: SIM  
 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	International number
TON	"ISDN / telephone numbering plan"
NPI	"012345678"
Address value	
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:	SIM
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 support)

## 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 SIM: SEND SHORT MESSAGE facility as defined in:

- TS 11.14 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 12.6, clause 12.7, clause 12.2, clause 12.1, clause 12.13, clause 12.31 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 (System Simulator) as indicated in the SEND SHORT MESSAGE proactive SIM command, and returns a TERMINAL RESPONSE command to the SIM 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 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 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))**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.1	[packing not required, 16-bit data]
4	ME → USER	Display "Send SM"	[Alpha Identifier]
5	ME → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 2.1	["ЗДРАВСТВУЙТЕ" = "Hello" in Russian]
6	SS → ME	SMS RP-ACK	
7	ME → SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1	[Command performed successfully]

**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:	SIM
----------------	-----

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	16-bit data
Message class	class 0
TP-UDL	24
TP-UD	"ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	43	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	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

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: SIM

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 (System Simulator) as indicated in the SEND SHORT MESSAGE proactive SIM command, and returns a TERMINAL RESPONSE command to the SIM 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 SIM Simulator and only connected to the System Simulator if the System Simulator 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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.1	
6	SS → ME	SMS RP-ACK	
7	ME → SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1A	[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: SIM  
 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:	SIM
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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.1	
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1	[packing not required, 8-bit data]
4	ME → USER	display the icon and "Send SM"	
5	ME → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.2	[basic icon non-self-explanatory]
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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: SIM  
 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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.2.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 3.2	
6	SS → ME	SMS RP-ACK	
7	ME → SIM	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: SIM

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
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## 27.22.4.10.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1A to 3.2B.

## 27.22.4.11 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 SIM: Send SS facility as defined in:

- TS 11.14 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 12.12.1, clause 5.2, clause 12.6, clause 12.7, clause 12.2, clause 12.14, clause 12.31 and clause 6.5.4.

## 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 SIM command to the system Simulator.

To verify that the ME returns a TERMINAL RESPONSE command to the SIM 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 SIM Simulator and only connected to the System Simulator if the System Simulator is mentioned in the sequence table.

The elementary files are coded as SIM 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 System Simulator.

## 27.22.4.11.1.4.2 Procedure

**Expected Sequence 1.1A (SEND SS, call forward unconditional, all bearers, successful)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	REGISTER 1.1A	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A	[Successful]
7	ME → SIM	TERMINAL RESPONSE: SEND SS 1.1.1A	

**Expected Sequence 1.1B (SEND SS, call forward unconditional, all bearers, successful)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	REGISTER 1.1B	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful]
7	ME → SIM	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: SIM  
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:

Coding	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:

Coding	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

ForwardedToNumber

- nature of address ind.: international
- numbering plan ind.: ISDN/Telephony (E.164)
- TBCD String: 01234567890123456789

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: SIM

#### 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: SIM

#### 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	REGISTER 1.1A Or REGISTER 1.1B	
6	SS → ME	RELEASE COMPLETE (SS RETURN ERROR) 1.1	[Return Error]
7	ME → SIM	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: SIM

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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	REGISTER 1.1A Or REGISTER 1.1B	
6	SS → ME	RELEASE COMPLETE (SS REJECT) 1.1.	[Reject]
7	ME → SIM	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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 1.4.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	REGISTER 1.2A	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.2A	[Successful]
7	ME → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 1.4.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	REGISTER 1.2B	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.2B	[Successful]
7	ME → SIM	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: SIM  
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:

Coding	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:

Coding	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"

#### RELEASE COMPLETE (SS RETURN RESULT) 1.2A

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:

BER-TLV	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:

BER-TLV	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: SIM  
 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: SIM  
 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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.5.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	REGISTER 1.3	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.3	[Successful]
7	ME → SIM	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: SIM  
 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	6 <sup>E</sup>	20	69	66	20	74
	68	65	20	46	69	78	65	64	20	44	69	61
	6C	6C	69	6 <sup>E</sup>	67	20	4 <sup>E</sup>	75	6D	62	65	72
	20	73	65	72	76	69	63	65	20	69	73	20
	65	6 <sup>E</sup>	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	6 <sup>E</sup>
	67	20	69	6 <sup>E</sup>	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	4 <sup>E</sup>	20	6C	69	73	74	2 <sup>E</sup>	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:

Coding	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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.6.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	REGISTER 1.1A	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A	[Successful]
7	ME → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.6.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	REGISTER 1.1B	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful]
7	ME → SIM	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: SIM  
 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 SIM command, and returns a successful result in the TERMINAL RESPONSE command send to the SIM.

In addition to verify that if an icon is provided by the SIM, 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 SIM Simulator and to the System Simulator.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the System Simulator.

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 2.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
7	ME → SIM	TERMINAL RESPONSE: SEND SS 2.1.1AA or TERMINAL RESPONSE: SEND SS 2.1.1AB	[Command performed successfully] Option AA applies if A.1/33 is supported, Option AB applies if A.1/33 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: SIM  
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<sub>(IMG)</sub>

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: SIM

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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → SS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
7	ME → SIM	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.1/33 is supported, Option BB applies if A.1/33 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: SIM

## 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: SIM

## 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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 2.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 2.2.1	[COLOUR-ICON, self-explanatory]
4	ME → USER	Display the colour icon without the alpha identifier	
5	ME → SS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
7	ME → SIM	TERMINAL RESPONSE: SEND SS 2.1.1AA or TERMINAL RESPONSE: SEND SS 2.1.1AB	[Command performed successfully] Option AA applies if A.1/33 is supported, Option AB applies if A.1/33 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: SIM  
   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<sub>(IMG)</sub>

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 2.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 2.2.1	[COLOUR-ICON, self-explanatory]
4	ME → USER	Display "Colour Icon" without the icon	
5	ME → SS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
7	ME → SIM	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.1/33 is supported, Option BB applies if A.1/33 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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 2.3.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
7	ME → SIM	TERMINAL RESPONSE: SEND SS 2.1.1AA or TERMINAL RESPONSE: SEND SS 2.1.1AB	[Command performed successfully] Option AA applies if A.1/33 is supported, Option AB applies if A.1/33 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: SIM  
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<sub>(IMG)</sub>

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 2.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → SS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
7	ME → SIM	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.1/33 is supported, Option BB applies if A.1/33 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	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 2.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 2.4.1	[BASIC-ICON, non self-explanatory]
4	ME → SIM	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: SIM  
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<sub>(IMG)</sub>

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: SIM  
 Result  
 General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	83	01	32
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#### 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 support)

##### 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 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 SIM command, and returns a successful result in the TERMINAL RESPONSE command send to the SIM.

##### 27.22.4.11.3.4 Method of test

###### 27.22.4.11.3.4.1 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.

The elementary files are coded as SIM 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 System Simulator.

## 27.22.4.11.3.4.2 Procedure

**Expected Sequence 3.1 (SEND SS, call forward unconditional, all bearers, successful, UCS2 text)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 3.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SS 3.1.1	
4	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	ME → SS	REGISTER 1.1A Or REGISTER 1.1B	Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B	[Successful] Option A applies if A.1/33 is supported, Option B applies if A.1/33 is not supported
7	ME → SIM	TERMINAL RESPONSE: SEND SS 1.1.1A or TERMINAL RESPONSE: SEND SS 1.1.1B	[Command performed successfully] Option A applies if A.1/33 is supported, Option B applies if A.1/33 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: SIM  
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.

## 27.22.4.12 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 SIM: Send USSD facility as defined in:

- TS 11.14 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 12.12.7, clause 5.2, clause 12.6, clause 12.7, clause 12.2, clause 12.17, clause 12.31 and clause 6.5.4.
- TS 03.38 [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 SIM command to the system Simulator.

To verify that the ME returns a TERMINAL RESPONSE command to the SIM 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 SIM Simulator and only connected to the System Simulator if the System Simulator is mentioned in the sequence table.

The elementary files are coded as SIM 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 System Simulator.

##### 27.22.4.12.1.4.2 Procedure

##### **Expected Sequence 1.1 (SEND USSD, 7-bit data, successful)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	ME → USER	Display "7-bit USSD"	
5	ME → SS	REGISTER 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → SIM	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: SIM  
 Destination device: Network  
 Alpha identifier: "7-bit USSD"

##### USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFIGHJKLMNOPQRSTUVWXYZ-abcdefghijklmнопqrstuvwxyz-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 <sup>E</sup>	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-abcdefghijklmнопqrstuvwxyz-1234567890"

Coding:

Coding	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1 <sup>E</sup>	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:

Coding	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: SIM  
 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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 1.2.1	
4	ME → USER	Display "8-bit USSD"	
5	ME → SS	REGISTER 1.2	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.2	["USSD string received from SS"]
7	ME → SIM	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: SIM  
 Destination device: Network  
 Alpha identifier: "8-bit USSD"  
 USSD String  
 Data coding scheme: Uncompressed, no message class meaning, 8-bit data  
 USSD string: "ABCDEFHIJKLMNOPQRSTUVWXYZ-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:
  - "ABCDEFHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnpqrstuvwxyz-1234567890"

Coding:

Coding	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:

Coding	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: SIM
- 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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 1.3.1	
4	ME → USER	Display "UCS2 USSD"	
5	ME → SS	REGISTER 1.3	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.3	["USSD string received from SS"]
7	ME → SIM	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: SIM  
 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:

Coding	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:

Coding	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: SIM

#### 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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	ME → USER	Display "7-bit USSD"	
5	ME → SS	REGISTER 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN ERROR) 1.1	Return Error
7	ME → SIM	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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	ME → USER	Display "7-bit USSD"	
5	ME → SS	REGISTER 1.1	
6	SS → ME	RELEASE COMPLETE (SS REJECT) 1.1	
7	ME → SIM	TERMINAL RESPONSE: SEND USSD 1.5.1	Reject

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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.6.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	REGISTER 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → SIM	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: SIM  
 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: "ABCDEFIGHJKLMNOPQRSTUVWXYZ-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 <sup>E</sup>	69	6 <sup>E</sup>	67	20	74	68
	65	20	55	53	53	44	20	52	65	74	75	72
	6 <sup>E</sup>	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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.7.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 1.7.1	
4	ME → USER	Optionally display an informative message	
5	ME → SS	REGISTER 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → SIM	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: SIM  
 Destination device: Network

##### USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnpqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	44	81	03	01	12	00	82	02	81	83	8A
	39	F0	41	E1	90	58	34	1 <sup>E</sup>	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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.8.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	REGISTER 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	["USSD string received from SS"]
7	ME → SIM	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: SIM  
 Destination device: Network  
 Alpha identifier: ""

#### USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFIGHJKLMNOPQRSTUVWXYZ-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	1 <sup>E</sup>	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 SIM command, and returns a successful result in the TERMINAL RESPONSE command send to the SIM.

In addition to verify that if an icon is provided by the SIM, 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 SIM Simulator and to the System Simulator. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the System Simulator

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display BASIC ICON	
5	ME → SS	REGISTER 2.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → SIM	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: SIM  
 Destination device: Network  
 Alpha identifier: "Basic Icon"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

## Icon Identifier:

Icon qualifier: icon is self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

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	8°
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5°	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3°	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 <sup>F</sup>	02
	00	01										

## REGISTER 2.1

Logically (only USSD argument)

## ProcessUnstructuredSS-Request ARGUMENT

## USSD-DataCodingScheme:

- 7-bit default, no message class

## USSD string:

- "ABCDEFHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

Coding	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1 <sup>E</sup>	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:

Coding	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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → SS	REGISTER 2.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → SIM	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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.2.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	REGISTER 2.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → SIM	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: SIM  
 Destination device: Network  
 Alpha identifier: "Color Icon"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFIGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

## Icon Identifier:

Icon qualifier: icon is self-explanatory  
 Icon Identifier: record 2 in EF<sub>(IMG)</sub>

## 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	8°
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5°	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3°	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°	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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" and BASIC- ICON	
5	ME → SS	REGISTER 2.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → SIM	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: SIM  
 Destination device: Network  
 Alpha identifier: "Basic Icon"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFIGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

## Icon Identifier

Icon qualifier: icon is non self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

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	8°
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5°	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3°	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 <sup>E</sup>	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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" without the icon	
5	ME → SS	REGISTER 2.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	["USSD string received from SS"]
7	ME → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 2.4.1	[BASIC-ICON, non self-explanatory]
4	ME → SIM	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: SIM  
 Destination device: Network

#### USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFIGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

#### Icon Identifier

Icon qualifier: icon is non self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

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 <sup>E</sup>	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: SIM

#### Result

General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01	32
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#### 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 support)

##### 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 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 SIM command, and returns a successful result in the TERMINAL RESPONSE command send to the SIM.

##### 27.22.4.12.3.4 Method of test

##### 27.22.4.12.3.4.1 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. The elementary files are coded as SIM 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 System Simulator.

## 27.22.4.12.3.4.2 Procedure

## Expected Sequence 3.1 (SEND USSD, 7-bit data, successful, UCS2 text)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 3.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 3.1.1	
4	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	ME → SS	REGISTER 3.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 3.1	[Successful]
7	ME → SIM	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: SIM  
 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: "ABCDEFHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnpqrstuvwxyz-

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:

- "ABCDEFHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnpqrstuvwxyz-1234567890"

Coding:

Coding	30	3D	04	01	F0	04	38	41	E1	90	58	34
	1 <sup>E</sup>	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:

Coding	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 3.1.1

Logically:

Command details

Command number: 1  
Command type: SEND USSD  
Command qualifier: "00"

Device identities

Source device: ME  
Destination device: SIM

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.

## 27.22.4.13 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 SIM: Set Up Call facility as defined in:

- TS 11.14 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 12.6, clause 12.7, clause 12.12, clause 12.12.3 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 SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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 system simulator.

## 27.22.4.13.1.4.2 Procedure

**Expected Sequence 1.1 (SET UP CALL, call confirmed by the user and connected)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME attempts to set up a call to "+012340123456"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] [Command performed successfully]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.1.1 The ME shall not update EF LND with the called party address.	
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: SIM  
 Destination device: Network  
 Alpha identifier: "Not busy"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Coding:

BER-TLV:	D0	1 <sup>E</sup>	81	03	01	10	00	82	02	81	83	85
	08	4 <sup>E</sup>	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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM

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 1.3 Void****Expected Sequence 1.4 (SET UP CALL, putting all other calls on hold, ME busy)**

ME is busy on a call

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.4.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The active call is put on hold	
7	ME → SS	The ME attempts to set up a call to "+012340123456"	
8	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
9	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
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: SIM

## 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.5.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME disconnects the active call	
7	ME→SS	The ME attempts to set up a call to "+012340123456"	
8	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
9	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
 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 <sup>E</sup>	6 <sup>E</sup>	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: SIM

##### 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.1.1	[only if not currently busy on another call]
4	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM

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 system simulator shall be configured to not allow Call Hold.

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.4.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME attempts to put the active call on hold	
7	SS->ME	The ME receives the HOLD REJECT message from the system simulator	[SS sends "Facility Rejected" as cause value]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.7.1A OR TERMINAL RESPONSE: SET UP CALL 1.7.1B	[Network currently unable to process command]

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: SIM

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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.8.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME attempts to set up a call to "+012340123456" using the capability configuration parameters supplied by SIM	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
 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: SIM

## 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.9.1	
2	ME → SIM	FETCH	
3	SIM → 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→SS	The ME attempts to set up a call to "+01234567890123456789012345678901"	
6	SS → ME	The ME receives the CONNECT message from the system simulator.	
7	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
 Destination device: Network

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "01234567890123456789012345678901"

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						

Note: The maximum BCD number length is limited as dependencies of the lower-layer type of access, e.g. PCS 1900, GSM 900, GSM 850, UMTS FDD shall be taken into account.

## 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: SIM

## 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.10.1	
2	ME → SIM	FETCH	
3	SIM → 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→SS	The ME attempts to set up a call to "+01"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
 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	6 <sup>E</sup>	6 <sup>E</sup>	65	63	74	69
	6 <sup>E</sup>	67	20	61	6C	6C	20	6F	74	68	65	72
	20	63	61	6C	6C	73	20	28	69	66	20	61
	6 <sup>E</sup>	79	29	20	66	69	72	73	74	2 <sup>E</sup>	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: SIM

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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.11.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME attempts to set up a call to "+012340123456" with the called party subaddress information	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.11.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.11.1	[set up a call with called party subaddress]
4	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
 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: SIM

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: SIM

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 system simulator shall be configured such that call set up requests will be rejected with cause "User Busy".

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.12.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	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 → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
 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: SIM  
 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 SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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 system simulator.

#### 27.22.4.13.2.4.2 Procedure

##### Expected Sequence 2.1 (SET UP CALL, two alpha identifiers)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 2.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME attempts to set up a call to "+012340123456". The ME displays "CALL" if the ME supports 2 <sup>nd</sup> alpha identifier or otherwise the ME may display "CONFIRMATION"	[second alpha identifier]
7	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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:	SIM
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: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00
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#### 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 SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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 system simulator.

## 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.1.1	
2	ME → SIM	FETCH	
3	SIM → 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→SS	The ME attempts to set up a call to "+012340123456"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
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: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00
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**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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME attempts to set up a call to "+012340123456"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.2.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME attempts to set up a call to "+012340123456"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
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 <sup>E</sup>	20	33	2 <sup>E</sup>	32	2 <sup>E</sup>	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: SIM

##### 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.2.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME attempts to set up a call to "+012340123456"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM

#### 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.3.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME attempts to set up a call to "+012340123456"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
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: SIM

##### 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.3.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	The ME attempts to set up a call to "+012340123456"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM

#### 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.4.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	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	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
 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: SIM  
 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.4.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	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	SS → ME	The ME receives the CONNECT message from the system simulator.	[The SS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 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: SIM  
 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.

## 27.22.4.14 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 11.14 [15] clause 5.2, clause 6.4.14, clause 6.6.14, clause 6.8, clause 6.11, clause 12.6 and clause 12.7.

### 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 SIM presence detection.

### 27.22.4.14.4 Method of test

#### 27.22.4.14.4.1 Initial conditions

The ME is connected to the SIM Simulator and to the System Simulator.

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	SIM → ME	PROACTIVE COMMAND PENDING: POLL INTERVAL 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POLL INTERVAL 1.1.1	Interval = 1 min
4	ME → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: POLLING OFF 1.1.2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: POLLING OFF 1.1.2	
8	ME → SIM	TERMINAL RESPONSE: POLLING OFF 1.1.2	[command performed successfully]
9	USER → ME	Call to be set up	
10	ME → SIM	Periods of inactivity on the SIM-ME interfaces shall 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: SIM  
 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: SIM

## 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: SIM

## 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 11.14 [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: SIM  
 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: SIM

## 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 11.14 [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;

if the local information is stored in the ME; otherwise, sends the correct error code to the SIM 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 SIM Simulator.

Except for sequences 1.4 and 1.5, scheme is connected to the System Simulator and has performed the location update procedure.

The GSM 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 SIM Application Toolkit default.

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

## 27.22.4.15.4.2 Procedure

## Expected Sequence 1.1 (PROVIDE LOCAL INFORMATION, Local Info (MCC, MNC, LAC &amp; Cell ID))

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1	
4	ME → SIM	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 system simulator, option A shall apply for GSM parameters]  [Command performed successfully, MCC MNC LAC and Cell Identity as system simulator, 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: SIM  
 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: SIM

## Result

General Result: Command performed successfully  
 Location Information  
 MCC & MNC: MCC = 001, MNC = 01  
 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	F1	10	00	01	00	01			

## 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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1	
4	ME → SIM	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1	[Command performed successfully, IMEI as system simulator, 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: SIM  
 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: SIM

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.

Coding:

BER-TLV:	81	03	01	26	01	82	02	82	81	83	01	00
	94	08	XX									

As an example, if the IMEI of the mobile is "123456789012345" then XX XX XX XX XX XX XX XX XX = 1A 32 54 76 98 10 32 04. For further details see also TS 04.08 [10], clause 10.5.1..

**Expected Sequence 1.3 (PROVIDE LOCAL INFORMATION, Network Measurement Results (NMR))**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.3.1	
4	ME → SIM	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1	[Command performed successfully, NMR as system simulator ]

**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: SIM  
 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: SIM

## 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)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.4.1	
4	ME → SIM	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.4.1	[Command performed successfully]

#### PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.4.1

Logically:

##### Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "03" Date Time and Time Zone

##### Device identities

Source device: SIM  
 Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	03	82	02	81	82
----------	----	----	----	----	----	----	----	----	----	----	----

#### TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.4.1

Logically:

##### Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "03" Date Time and Time Zone

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Command performed successfully  
 Date-Time and Time Zone date an time set by the user: 7<sup>th</sup> May 2002, 14h 08mn 17s, no time zone information, as an example in TLV

Coding:

BER-TLV:	81	03	01	26	03	82	02	82	81	83	01	00
	A6	07	20	50	70	41	80	71	FF			

**Expected Sequence 1.5 (PROVIDE LOCAL INFORMATION, Language setting)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.5.1	
4	ME → SIM	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.5.1	[Command performed successfully]

**PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.5.1**

Logically:

## Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "04" Language setting

## Device identities

Source device: SIM  
 Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	26	04	82	02	81	82
----------	----	----	----	----	----	----	----	----	----	----	----

**TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.5.1**

Logically:

## Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "04" Language setting

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully  
 Language English ("en") as an example for TLV

Coding:

BER-TLV:	81	03	01	26	04	82	02	82	81	83	01	00
	AD	02	65	6E								

**Expected Sequence 1.6 (PROVIDE LOCAL INFORMATION, Timing advance)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.6.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.6.1	
4	ME → SIM	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: SIM  
 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: SIM

## Result

General Result: Command performed successfully  
 Timing Advance 2 bytes  
 ME status: "00" ME is in idle state Idle State  
 Timing Advance: 0

Coding:

BER-TLV:	81	03	01	26	05	82	02	82	81	83	01	00
	AE	02	00	00								

## 27.22.4.15.5 Test requirement

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

## 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 SIM: Set Up Event List facility as defined in:

- TS 11.14 [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 11.14 [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 SIM, 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 SIM 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 SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	SS → ME	SETUP 1.1.1	[Incoming call alert]
7	USER → ME	User shall accept the incoming call	
8	ME → SS	CONNECT 1.1.1	
9	ME → SIM	ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1.1	[Call Connected Event]
10	SIM → ME	PROACTIVE SIM 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:	SIM
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: SIM  
 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: SIM  
 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1	[Call Connected and Call Disconnected Events]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2	[Call Disconnected Event]
8	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2	
9	SIM → ME	PROACTIVE SIM SESSION ENDED	
10	SS → ME	SETUP 1.2.2	[Incoming call alert]
11	USER → ME	User shall accept the incoming call	
12	ME → SS	CONNECT 1.2.2	
13	SS → ME	DISCONNECT 1.2.2	
14	ME → SIM	ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2A or ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2B	[Call Disconnect Event]
15	SIM → ME	PROACTIVE SIM 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: SIM  
 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: SIM

## 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: SIM  
 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: SIM

## 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: SIM  
 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: SIM  
 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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1	[Call Connected Event]
	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1	
4	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.2	
5	ME → SIM	FETCH	
6	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2	[Remove Event]
7	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
10	SS → ME	SETUP 1.3.2	
11	USER → ME	User shall accept the incoming call	
12	ME → SS	CONNECT 1.3.2	
13	ME → SIM	No ENVELOPE: EVENT DOWNLOAD (call connected) sent	
14	SS → 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: SIM  
 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: SIM

## 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: SIM  
 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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.4.1	[Call Connected Event]
	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.4.1	
4	SIM → ME	PROACTIVE SIM SESSION ENDED	
5	User → ME	Power off ME	
6	User → ME	Power on ME	
7	SS → ME	SETUP 1.4.1	
8	USER → ME	User shall accept the incoming call	[Incoming call alert]
9	ME → SS	CONNECT 1.4.1	
10	ME → SIM	No ENVELOPE: EVENT DOWNLOAD (call connected) sent	
11	SS → 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: SIM

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: SIM  
 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 SIM: Perform Card APDU facility as defined in:

- TS 11.14 [15] clause 6.1, clause 5.2, clause 6.4.17, clause 6.6.17, clause 6.8, clause 12.6, clause 12.7, clause 12.35, clause 12.36 and clause 12.12.9.

Additionally the ME shall support multiple card operation as defined in:

- TS 11.14 [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 SIM command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the SIM.

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 D).

#### 27.22.4.17.1.4 Method of test

##### 27.22.4.17.1.4.1 Initial conditions

The ME is connected to the SIM 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 D. Another card with different parameters may be used as TestSIM to execute these tests. In this case the SIM Simulator shall take into account the corresponding response data.

## 27.22.4.17.1.4.2 Procedure

**Expected Sequence 1.1 (PERFORM CARD APDU, card reader 1, additional card inserted, Select MF and Get Response)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	ANSWER TO RESET 1.1	[ATR]
6	ME → SIM	TERMINAL RESPONSE: POWER ON CARD 1.1.1	[ATR]
7	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.1.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	[Select Masterfile]
10	ME → SIM2	C-APDU: SELECT 1.1	[Select Masterfile]
11	SIM2 → ME	R-APDU: SELECT 1.1	[Command performed successfully - length '1B' of response data]
12	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.1.1	
13	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.1.2	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.2	[Get Response with length '1B']
16	ME → SIM2	C-APDU: GET RESPONSE 1.1	[Get Response with length '1B']
17	SIM2 → ME	R-APDU: GET RESPONSE 1.1	[Response data with length '1B']
18	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.1.2	[Response data with length '1B']

## PROACTIVE COMMAND POWER ON CARD 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: POWER ON CARD  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11
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## ANSWER TO RESET 1.1

Logically:

TS (Initial character): '3B'  
 T0 (Format character): '86' (Following interface characters: TD(1), number of historical characters: 6)  
 TD1: '00' (Following interface characters: none, Transfer protocol: T=0)  
 T1: 91  
 T2: 99

T3:	00
T4:	12
T5:	C1
T6:	00

Coding:

Coding:	3B	86	00	91	99	00	12	C1	00
---------	----	----	----	----	----	----	----	----	----

#### TERMINAL RESPONSE: POWER ON CARD 1.1.1

Logically:

##### Command details

Command number:	1
Command type:	POWER ON CARD
Command qualifier:	"00"

##### Device identities

Source device:	ME
Destination device:	SIM

##### Result

General Result:	Command performed successfully
-----------------	--------------------------------

##### Card ATR

TS (Initial character):	'3B'
T0 (Format character):	'86' (Following interface characters: TD(1), number of historical characters: 6)
TD1:	'00' (Following interface characters: none, Transfer protocol: T=0)
T1:	91
T2:	99
T3:	00
T4:	12
T5:	C1
T6:	00

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	01	00
	A1	09	3B	86	00	91	99	00	12	C1	00	

#### PROACTIVE COMMAND PERFORM CARD APDU 1.1.1

Logically:

##### Command details

Command number:	1
Command type:	PERFORM CARD APDU
Command qualifier:	"00"

##### Device identities

Source device:	SIM
Destination device:	Card Reader 1

##### C-APDU

Class:	'A0'
Instruction:	SELECT
P1 parameter:	'00'
P2 parameter:	'00'
Lc:	'02'
Data:	Master File

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	3F	00				

C-APDU: SELECT 1.1

Logically:

C-APDU

Class:	'A0'
Instruction:	SELECT
P1 parameter:	'00'
P2 parameter:	'00'
Lc:	'02'
Data:	Master File

Coding:

Coding:	A0	A4	00	00	02	3F	00
---------	----	----	----	----	----	----	----

R-APDU: SELECT 1.1

Logically:

Status Words  
 SW1 / SW2: Command performed successfully - length '1B' of response data

Coding:

Coding:	9F	1B
---------	----	----

TERMINAL RESPONSE: PERFORM CARD APDU 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 R-APDU  
 Status Words  
 SW1 / SW2: Command performed successfully - length '1B' of response data

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	9F	1B								

PROACTIVE COMMAND PERFORM CARD APDU 1.1.2

Logically:

Command details  
 Command number: 1  
 Command type: PERFORM CARD APDU

Command qualifier: '00'  
 Device identities  
 Source device: SIM  
 Destination device: Card Reader 1  
 C-APDU  
 Class: 'A0'  
 Instruction: GET RESPONSE  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Le: '1B'

Coding:

BER-TLV:	D0	10	81	03	01	30	00	82	02	81	11	A2
	05	A0	C0	00	00	1B						

C-APDU: GET RESPONSE 1.1

Logically:

C-APDU  
 Class: 'A0'  
 Instruction: GET RESPONSE  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Le: '1B'

Coding:

Coding:	A0	C0	00	00	1B
---------	----	----	----	----	----

R-APDU: GET RESPONSE 1.1

Logically:

R-APDU data  
 RFU: '00 00'  
 Not allocated memory: '653 bytes'  
 File ID: Master File  
 Type of file: MF  
 RFU: 00 00 22 FF 01'  
 Length of following data: 14 bytes'  
 File characteristics:  
   Clock Stop: Not allowed  
   Min. frequency for 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							

#### TERMINAL RESPONSE: PERFORM CARD APDU 1.1.2

Logically:

Command details	
Command number:	1
Command type:	PERFORM CARD APDU
Command qualifier:	"00"
Device identities	
Source device:	ME
Destination device:	SIM
Result	
General Result:	Command performed successfully
R-APDU data	
RFU:	'00 00'
Not allocated memory:	'653 bytes'
File ID:	Master File
Type of file:	MF
RFU:	00 00 22 FF 01'
Length of following data:	14 bytes'
File characteristics:	
Clock Stop:	Not allowed
Min. frequency for GSM algorithm:	13/8 MHz
Technology identification:	3V Technology SIM
CHV1:	disabled
DFs in current directory:	2
EFs in current directory:	
Number of CHV and admin. Codes:	3
RFU byte 18:	00
CHV1 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized
Unlock CHV1 status:	
False representations remaining:	10
RFU-bits 7-5:	000
Secret code:	Initialized
CHV2 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized
Unlock CHV2 status:	

False representations remaining: 10  
RFU-bits 7-5: 000  
Secret code: Initialized  
RFU bytes 23: 00  
Reserved for admin. management: 00 83 00 FF

Status Words  
SW1 / SW2:

Normal ending of command

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	0F	00	00	02	8D	3F	00	01	00	00	22
	FF	01	0E	90	00							

**Expected Sequence 1.2 (PERFORM CARD APDU, card reader 1, additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	ANSWER TO RESET 1.1	[ATR]
6	ME → SIM	TERMINAL RESPONSE: POWER ON CARD 1.1.1	[ATR]
7	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.1	[Select GSM]
10	ME → SIM2	C-APDU: SELECT 1.2a	[Select GSM]
11	SIM2 → ME	R-APDU: SELECT 1.2a	
12	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.1	
13	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.2	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.2	[Select PLMN]
16	ME → SIM2	C-APDU: SELECT 1.2b	[Select PLMN]
17	SIM2 → ME	R-APDU: SELECT 1.2b	
18	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.2	
19	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.3	
20	ME → SIM	FETCH	
21	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.3	[Update Binary]
22	ME → SIM2	C-APDU: UPDATE BINARY 1.2	[Update Binary]
23	SIM2 → ME	R-APDU: UPDATE BINARY 1.2	
24	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3	
25	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.4	
26	ME → SIM	FETCH	
27	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.4	[Read Binary]
28	ME → SIM2	C-APDU: READ BINARY 1.2	[Read Binary]
29	SIM2 → ME	R-APDU: READ BINARY 1.2	
30	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.4	
31	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.5	
32	ME → SIM	FETCH	
33	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.5	[Update Binary]
34	ME → SIM2	C-APDU: UPDATE BINARY 1.2a	[Update Binary]
35	SIM2 → ME	R-APDU: UPDATE BINARY 1.2	
36	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3	

PROACTIVE COMMAND PERFORM CARD APDU 1.2.1

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities

Source device: SIM  
 Destination device: Card Reader 1

C-APDU

Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: DF GSM

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	7F	20				

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.2

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities

Source device: SIM  
 Destination device: Card Reader 1

C-APDU

Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: EF PLMN

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	6F	30				

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.3

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities

Source device: SIM  
 Destination device: Card Reader 1

C-APDU

Class: 'A0'  
 Instruction: UPDATE BINARY  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '18'

Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'

Coding:

BER-TLV:	D0	28	81	03	01	30	00	82	02	81	11	A2
	1D	A0	D6	00	00	18	00	01	02	03	04	05
	06	07	08	09	0A	0B	0C	0D	0E	0F	10	11
	12	13	14	15	16	17						

## PROACTIVE COMMAND: PERFORM CARD APDU 1.2.4

Logically:

## Command details

Command number: 1  
Command type: PERFORM CARD APDU  
Command qualifier: "00"

## Device identities

Source device: SIM  
Destination device: Card Reader 1

C-APDU

Class:	'A0'
Instruction:	READ BINARY
P1 parameter:	'00'
P2 parameter:	'00'
Le:	'18'

## Coding:

BER-TLV:	D0	10	81	03	01	30	00	82	02	81	11	A2
	05	A0	B0	00	00	18						

PROACTIVE COMMAND: PERFORM CARD APDU 1.2.5

Logically:

## Command details

Command number: 1  
Command type: PERFORM CARD APDU  
Command qualifier: "00"

## Device identities

Source device: SIM  
Destination device: Card Reader 1

C-APDU

## Coding:

BER-TLV:	D0	28	81	03	01	30	00	82	02	81	11	A2
	1D	A0	D6	00	00	18	FF	FF	FF	FF	FF	FF
	FF											
	FF	FF	FF	FF	FF	FF						

## C-APDU: SELECT 1.2a

Logically:

C-APDU

Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: DF GSM

Coding:

Coding:	A0	A4	00	00	02	7F	20
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C-APDU: SELECT 1.2b

Logically:

**C-APDU**  
 Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: EF PLMN

Coding:

Coding:	A0	A4	00	00	02	6F	30
---------	----	----	----	----	----	----	----

C-APDU: UPDATE BINARY 1.2

Logically:

**C-APDU**  
 Class: 'A0'  
 Instruction: UPDATE BINARY  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '18'  
 Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'

Coding:

Coding:	A0	D6	00	00	18	00	01	02	03	04	05	06
	07	08	09	0A	0B	0C	0D	0E	0F	10	11	12
	13	14	15	16	17							

C-APDU: READ BINARY 1.2

Logically:

**C-APDU**  
 Class: 'A0'  
 Instruction: READ BINARY  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Le: '18'

## Coding:

Coding:	A0	B0	00	00	18
---------	----	----	----	----	----

C-APDU: UPDATE BINARY 1.2a

Logically:

C-APDU

Coding:

Coding:	A0	D6	00	00	18	FF						
	FF											
	FF	FF	FF	FF	FF							

## R-APDU: SELECT 1.2a

Logically:

## Status Words

SW1 / SW2: Normal ending of command - length '1B' of response data

## Coding:

Coding:	9F	1B
---------	----	----

## R-APDU: SELECT 1.2b

Logically:

## Status Words

SW1 / SW2: Normal ending of command - length '0F' of response data

## Coding:

Coding:	9F	0F
---------	----	----

## R-APDU: UPDATE BINARY 1.2

Logically:

## Status Words

**SW1 / SW2:** Normal ending of command

## Coding:

Coding:	90	00
---------	----	----

## R-APDU: READ BINARY 1.2

Logically:

R-APDU data  
 Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'  
 Status Words  
 SW1 / SW2: Normal ending of command

Coding:

Coding:	00	01	02	03	04	05	06	07	08	09	0A	0B
	0C	0D	0E	0F	10	11	12	13	14	15	16	17
	90	00										

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.1

Logically:

Command details  
 Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 R-APDU  
 Status Words  
 SW1 / SW2: Command performed successfully - length 1B of response data

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	9F	1B								

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.2

Logically:

Command details  
 Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 R-APDU  
 Status Words  
 SW1 / SW2: Command performed successfully - length 0F of response data

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	9F	0F								

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3

Logically:

## Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## R-APDU

Status Words  
 SW1 / SW2: Normal ending of command

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	02	90	00								

TERMINAL RESPONSE: PERFORM CARD APDU 1.2.4

Logically:

## Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## R-APDU

R-APDU data  
 Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'  
 Status Words  
 SW1 / SW2: Normal ending of command

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	01	00
	A3	1A	00	01	02	03	04	05	06	07	08	09
	0A	0B	0C	0D	0E	0F	10	11	12	13	14	15
	16	17	90	00								

## Expected Sequence 1.3 (PERFORM CARD APDU, card reader 1, card inserted, card powered off)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER OFF CARD 1.3.1	[Power off card reader 1]
4	ME → SIM	POWER OFF CARD	
5	ME → SIM	TERMINAL RESPONSE: POWER OFF CARD 1.3.1	[Power off card reader 1] [Successful]
6	ME	SIM2 is powered off from ME card reader	
7	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.1.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	[Select Master File]
10	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1	[Card powered off]

PROACTIVE COMMAND: POWER OFF CARD 1.3.1

Logically:

## Command details

Command number: 1  
 Command type: POWER OFF CARD  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: Card reader 1

Coding:

BER-TLV: D0 09 81 03 01 32 00 82 02 81 11

TERMINAL RESPONSE: POWER OFF CARD 1.3.1

Logically:

## Command details

Command number: 1  
 Command type: POWER OFF CARD  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	01
	00										

TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1

Logically:

## Command details

Command number: 1

Command type: PERFORM CARD APDU  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: MultipleCard commands error  
 Additional Information: Card powered off

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	04									

#### Expected Sequence 1.4 (PERFORM CARD APDU, card reader 1, no card inserted)

Step	Direction	MESSAGE / Action	Comments
1	ME	SIM2 is removed from ME card reader	
2	SIM → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.1.1	
3	ME → SIM	FETCH	[Select Master File]
4	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	
5	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1	[No card inserted]

TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1

Logically:

Command details  
 Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: MultipleCard commands error  
 Additional Information: Card removed or not present

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	02									

#### Expected Sequence 1.5 (PERFORM CARD APDU, card reader 7 (which is not the valid card reader identifier of the additional ME card reader))

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.5.1	[invalid card reader ID]
3	ME → SIM	FETCH	
4	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.5.1	[Select Master File]
5	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1	[Specified reader not valid]

PROACTIVE COMMAND: PERFORM CARD APDU 1.5.1

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities

Source device: SIM  
 Destination device: Card Reader 7

C-APDU

Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: Master File

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	17	A2
	07	A0	A4	00	00	02	3F	00				

C-APDU: SELECT 1.1

Logically:

C-APDU

Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: Master File

Coding:

Coding:	A0	A4	00	00	02	3F	00
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TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: MultipleCard commands error  
 Additional Information: Specified reader not valid

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	09									

#### 27.22.4.17.1.5 Test requirement

The 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 SIM command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the SIM.

#### 27.22.4.17.2.4 Method of test

##### 27.22.4.17.2.4.1 Initial conditions

The ME is connected to the SIM 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)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 2.1.1	[Select Master File]
4	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 2.1.1	[Card reader detached]

PROACTIVE COMMAND: PERFORM CARD APDU 2.1.1

Logically:

##### Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

##### Device identities

Source device: SIM  
 Destination device: Card Reader 1

##### C-APDU

Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: Master File

Coding:

BER-TLV:	D0	12	81	03	01	30	00	82	02	81	11	A2
	07	A0	A4	00	00	02	3F	00				

## TERMINAL RESPONSE: PERFORM CARD APDU 2.1.1

Logically:

## Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: MultipleCard commands error  
 Additional Information: Card reader removed or not present

Coding:

BER-TLV:	81	03	01	30	00	82	02	82	81	83	02
	38	01									

## 27.22.4.17.2.5 Test requirement

The 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 SIM: Power Off Card facility as defined in:

- TS 11.14 [15] clause 6.1, clause 6.4.18, clause 6.6.18, clause 12.6, clause 12.7, clause 12.12, clause 12.12.9, 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 SIM command, and successfully returns result in the TERMINAL RESPONSE command send to the SIM.

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 SIM Simulator.

The ME card reader is connected to the second SIM Simulator (SIM2). Instead of the second SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the SIM 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 second SIM Simulator (SIM2).

#### 27.22.4.18.1.4.2 Procedure

##### Expected Sequence 1.1 (POWER OFF CARD, card reader 1)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER OFF CARD 1.1.1	[Power off card reader 1]
4	ME → SIM2	POWER OFF CARD	[Power off card reader 1]
5	ME → SIM	TERMINAL RESPONSE: POWER OFF CARD 1.1.1	[Successful]

##### PROACTIVE COMMAND: POWER OFF CARD 1.1.1

Logically:

###### Command details

Command number: 1  
 Command type: POWER OFF CARD  
 Command qualifier: "00"

###### Device identities

Source device: SIM  
 Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11
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##### TERMINAL RESPONSE: POWER OFF CARD 1.1.1

Logically:

###### Command details

Command number: 1  
 Command type: POWER OFF CARD  
 Command qualifier: "00"

###### Device identities

Source device: ME  
 Destination device: SIM

###### Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	01
	00										

**Expected Sequence 1.2 (POWER OFF CARD, card reader 1, no card inserted)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM2	SIM2 is removed from ME card reader	
2	SIM → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.1.1	
3	ME → SIM	FETCH	
4	SIM → ME	PROACTIVE COMMAND: POWER OFF CARD 1.1.1	[Power off card reader 1]
5	ME → SIM	TERMINAL RESPONSE: POWER OFF CARD 1.2.1	[No card inserted]

TERMINAL RESPONSE: POWER OFF CARD 1.2.1

Logically:

Command details

Command number: 1  
 Command type: POWER OFF CARD  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: MultipleCard commands error  
 Additional Information: Card removed or not present

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	02
	38	02									

#### 27.22.4.18.1.5 Test requirement

The 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 SIM command, and successfully returns result in the TERMINAL RESPONSE command send to the SIM.

##### 27.22.4.18.2.4 Method of test

##### 27.22.4.18.2.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The ME card reader is connected to the second 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 second 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER OFF CARD 2.1.1	[Power off card reader 1]
4	ME → SIM	TERMINAL RESPONSE: POWER OFF CARD 2.1.1	[Card reader removed or not present]

PROACTIVE COMMAND: POWER OFF CARD 2.1.1

Logically:

##### Command details

Command number: 1  
Command type: POWER OFF CARD  
Command qualifier: "00"

##### Device identities

Source device: SIM  
Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11
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TERMINAL RESPONSE: POWER OFF CARD 2.1.1

Logically:

##### Command details

Command number: 1  
Command type: POWER OFF CARD  
Command qualifier: "00"

##### Device identities

Source device: ME Destination device: SIM

##### Result

General Result: MultipleCard commands error  
Additional Information: Card reader removed or not present

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	02
	38	01									

#### 27.22.4.18.2.5 Test requirement

The 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 SIM: Power On Card facility as defined in:

- TS 11.14 [15] clause 6.1, clause 6.4.19, clause 6.6.19, clause 12.6, clause 12.7, clause 12.12, clause 12.12.9, clause 12.34, 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 SIM command, and successfully returns the Answer To Reset within the TERMINAL RESPONSE command send to the SIM.

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 SIM Simulator.

The ME card reader is connected to the second SIM Simulator (SIM2). Instead of the second SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the SIM 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)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	ANSWER TO RESET 1.1.1	[ATR]
6	ME → SIM	TERMINAL RESPONSE: POWER ON CARD 1.1.1	[ATR]

##### PROACTIVE COMMAND: POWER ON CARD 1.1.1

Logically:

###### Command details

Command number: 1  
 Command type: POWER ON CARD  
 Command qualifier: "00"

###### Device identities

Source device: SIM  
 Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11
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ANSWER TO RESET 1.1.1

Logically:

TS (Initial character):	'3B'
T0 (Format character):	0F
T1 (Historical character):	'P'
T2 (Historical character):	'o'
T3 (Historical character):	'w'
T4 (Historical character):	'e'
T5 (Historical character):	'r'
T6 (Historical character):	'O'
T7 (Historical character):	'n'
T8 (Historical character):	'C'
T9 (Historical character):	'a'
T10 (Historical character):	'r'
T11 (Historical character):	'd'
T12 (Historical character):	'T'
T13 (Historical character):	'e'
T14 (Historical character):	's'
T15 (Historical character):	't'

Coding:

Coding	3B	0F	50	6F	77	65	72	4F	6 <sup>E</sup>	43	61	72
	64	54	65	74	75							

TERMINAL RESPONSE: POWER ON CARD 1.1.1

Logically:

Command details	
Command number:	1
Command type:	POWER ON CARD
Command qualifier:	"00"
Device identities	
Source device:	ME
Destination device:	SIM
Result	
General Result:	Command performed successfully
Card ATR	
TS (Initial character):	'3B'
T0 (Format character):	0F
T1 (Historical character):	'P'
T2 (Historical character):	'o'
T3 (Historical character):	'w'
T4 (Historical character):	'e'
T5 (Historical character):	'r'
T6 (Historical character):	'O'
T7 (Historical character):	'n'
T8 (Historical character):	'C'
T9 (Historical character):	'a'
T10 (Historical character):	'r'
T11 (Historical character):	'd'
T12 (Historical character):	'T'
T13 (Historical character):	'e'

T14 (Historical character): 's'  
 T15 (Historical character): 't'

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	01	00
	A1	11	3B	0F	50	6F	77	65	72	4F	6E	43
	61	72	64	54	65	74	75					

#### Expected Sequence 1.2 (POWER ON CARD, card reader 1, no ATR)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	NO ATR	[No ATR]
6	ME → SIM	TERMINAL RESPONSE: POWER ON CARD 1.2.1	[No ATR]

TERMINAL RESPONSE: POWER ON CARD 1.2.1

Logically:

##### Command details

Command number: 1  
 Command type: POWER ON CARD  
 Command qualifier: "00"

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: MultipleCard commands error  
 Additional Information: Card mute

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	02	38
	06											

#### Expected Sequence 1.3 (POWER ON CARD, card reader 1, no card inserted)

Step	Direction	MESSAGE / Action	Comments
1	SIM2	SIM2 is removed from ME card reader	
2	SIM → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
3	ME → SIM	FETCH	
4	SIM → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
5	ME → SIM	TERMINAL RESPONSE: POWER ON CARD 1.3.1	[Card removed or not present]

TERMINAL RESPONSE: POWER ON CARD 1.3.1

Logically:

##### Command details

Command number: 1

Command type: POWER ON CARD  
 Command qualifier: "00"  
 Device identities  
 Source device: Card reader 0  
 Destination device: SIM  
 Result  
 General Result: MultipleCard commands error  
 Additional Information: Card removed or not present

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	02	38
	02											

#### 27.22.4.19.1.5 Test requirement

The 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 SIM command, and successfully returns the Answer To Reset within the TERMINAL RESPONSE command send to the SIM.

##### 27.22.4.19.2.4 Method of test

###### 27.22.4.19.2.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM Application Toolkit default.

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)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER ON CARD 2.1.1	[Power on card reader 1]
4	ME → SIM	TERMINAL RESPONSE: POWER ON CARD 2.1.1	[Card reader removed or not present]

PROACTIVE COMMAND: POWER ON CARD 2.1.1

Logically:

## Command details

Command number: 1  
 Command type: POWER ON CARD  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11
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TERMINAL RESPONSE: POWER ON CARD 2.1.1

Logically:

## Command details

Command number: 1  
 Command type: POWER ON CARD  
 Command qualifier: "00"

## Device identities

Source device: Card reader 0  
 Destination device: SIM

## Result

General Result: MultipleCard commands error  
 Additional Information: Card reader removed or not present

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	02	38
	01											

## 27.22.4.19.2.5 Test requirement

The 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 SIM: Get Card Reader Status facility as defined in:

- TS 11.14 [15] clause 6.1, clause 5.2, clause 6.4.20, clause 6.6.20, clause 6.8, clause 12.6, clause 12.7, clause 12.33, clause 12.57 and annex H.

Additionally the ME shall support multiple card operation as defined in:

- TS 11.14 [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 SIM command, and successfully returns information about all interfaces to additional card reader(s) in the TERMINAL RESPONSE command send to the SIM.

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 second 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 SIM: Get Card Reader Status (Card Reader Status) facility. The ME is connected to the SIM Simulator.

The ME card reader is connected to the second SIM Simulator (SIM2). Instead of the second SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the SIM Simulator shall take into account the corresponding response data.

The elementary files are coded as SIM 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 second SIM Simulator (SIM2).

##### 27.22.4.20.1.4.2 Procedure

##### **Expected Sequence 1.1 (GET CARD READER STATUS, card reader 1, card inserted, card powered)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	ANSWER TO RESET 1.1.1	[ATR]
6	ME → SIM	TERMINAL RESPONSE: POWER ON CARD 1.1.1	[ATR]
7	SIM → ME	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 1.1.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1	[Get Card Reader Status]
10	ME → SIM	TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1a Or TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1b or TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1c or TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1d	[Successful] [Successful] [Successful] [Successful]

PROACTIVE COMMAND: POWER ON CARD 1.1.1

Logically:

##### Command details

Command number: 1  
Command type: POWER ON CARD

Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	31	00	82	02	81	11
----------	----	----	----	----	----	----	----	----	----	----	----

ANSWER TO RESET 1.1.1

Logically:

TS (Initial character): '3B'  
 T0 (Format character): '00'

Coding:

Coding:	3B	00		
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TERMINAL RESPONSE: POWER ON CARD 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: POWER ON CARD  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Card ATR  
 TS (Initial character): '3B'  
 T0 (Format character): '00'

Coding:

BER-TLV:	81	03	01	31	00	82	02	82	81	83	01	00
	A1	02	3B	00								

PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status  
 Device identities  
 Source device: SIM  
 Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	33	00	82	02	81	82
----------	----	----	----	----	----	----	----	----	----	----	----

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1a

Logically:

## Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Card reader status

Identity of card reader: '01'  
 Card reader removable: 'No'  
 Card reader present: Yes  
 Card reader ID-1 size: 'Yes'  
 Card present in reader: Yes  
 Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	F1							

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1b

Logically:

## Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Card reader status

Identity of card reader: '01'  
 Card reader removable: 'No'  
 Card reader present: Yes  
 Card reader ID-1 size: 'No'  
 Card present in reader: Yes  
 Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	D1							

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1c

Logically:

## Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Card reader status

Identity of card reader: '01'  
 Card reader removable: 'Yes'  
 Card reader present: Yes  
 Card reader ID-1 size: 'Yes'  
 Card present in reader: Yes  
 Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	F9							

TERMINAL RESPONSE: GET CARD READER STATUS 1.1.1d

Logically:

#### Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

General Result: Command performed successfully

#### Card reader status

Identity of card reader: '01'  
 Card reader removable: 'Yes'  
 Card reader present: Yes  
 Card reader ID-1 size: 'No'  
 Card present in reader: Yes  
 Card powered: Yes

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	D9							

## Expected Sequence 1.2 (GET CARD READER STATUS, card reader 1, card inserted, card not powered)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER OFF CARD 1.2.1	[Power off card reader 1]
4	ME → SIM	POWER OFF CARD	[Power off card reader 1]
5	ME → SIM	TERMINAL RESPONSE: POWER OFF CARD 1.2.1	[Successful]
6	SIM → ME	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 1.1.1	
7	ME → SIM	FETCH	
8	SIM → ME	PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1	[Get Card Reader Status]
9	ME → SIM	TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1a Or TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1b or TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1c Or TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1d	[Successful] [Successful] [Successful] [Successful]

PROACTIVE COMMAND: POWER OFF CARD 1.2.1

Logically:

## Command details

Command number: 1  
 Command type: POWER OFF CARD  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: Card reader 1

Coding:

BER-TLV:	D0	09	81	03	01	32	00	82	02	81	11
----------	----	----	----	----	----	----	----	----	----	----	----

TERMINAL RESPONSE: POWER OFF CARD 1.2.1

Logically:

## Command details

Command number: 1  
 Command type: POWER OFF CARD  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	32	00	82	02	82	81	83	01
	00										

## TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1a

Logically:

## Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Card reader status

Identity of card reader: '01'  
 Card reader removable: 'No'  
 Card reader present: Yes  
 Card reader ID-1 size: 'Yes'  
 Card present in reader: Yes  
 Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	71							

## TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1b

Logically:

## Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Card reader status

Identity of card reader: '01'  
 Card reader removable: 'No'  
 Card reader present: Yes  
 Card reader ID-1 size: 'No'  
 Card present in reader: Yes  
 Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	51							

## TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1c

Logically:

## Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Card reader status

Identity of card reader: '01'  
 Card reader removable: 'Yes'  
 Card reader present: Yes  
 Card reader ID-1 size: 'Yes'  
 Card present in reader: Yes  
 Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	79							

## TERMINAL RESPONSE: GET CARD READER STATUS 1.2.1d

Logically:

## Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Card reader status

Identity of card reader: '01'  
 Card reader removable: 'Yes'  
 Card reader present: Yes  
 Card reader ID-1 size: 'No'  
 Card present in reader: Yes  
 Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	59							

## Expected Sequence 1.3 (GET CARD READER STATUS, card reader 1, card not present)

Step	Direction	MESSAGE / Action	Comments
1	SIM2	SIM2 is removed from ME card reader	
2	SIM → ME	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 1.1.1	
3	ME → SIM	FETCH	
4	SIM → ME	PROACTIVE COMMAND: GET CARD READER STATUS 1.1.1	[Get Card Reader Status]
5	ME → SIM	TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1a or TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1b or TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1c or TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1d	[Successful]  [Successful]  [Successful]  [Successful]

## TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1a

Logically:

Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Card reader status

Identity of card reader: 'I'  
 Card reader removable: 'No'  
 Card reader present: Yes  
 Card reader ID-1 size: 'Yes'  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	31							

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1b

Logically:

Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: card reader status

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Card reader status

Identity of card reader: 'I'  
 Card reader removable: 'No'  
 Card reader present: Yes  
 Card reader ID-1 size: 'No'  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	11							

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1c

Logically:

Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: card reader status

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

## Card reader status

Identity of card reader: 'I'  
 Card reader removable: 'Yes'  
 Card reader present: Yes  
 Card reader ID-1 size: 'Yes'  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	39							

TERMINAL RESPONSE: GET CARD READER STATUS 1.3.1d

Logically:

## Command details

Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Card reader status

Identity of card reader: 'I'  
 Card reader removable: 'Yes'  
 Card reader present: Yes  
 Card reader ID-1 size: 'No'  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	19							

## 27.22.4.20.1.5 Test requirement

The 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 SIM command, and successfully returns result in the TERMINAL RESPONSE command send to the SIM.

## 27.22.4.20.2.4 Method of test

## 27.22.4.20.2.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM 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 second 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET CARD READER STATUS 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET CARD READER STATUS 2.1.1	[Get Card Reader Status]
4	ME → SIM	TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1a or TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1b	[Successful]  [Successful]

PROACTIVE COMMAND: GET CARD READER STATUS 2.1.1

Logically:

## Command details

Command number: 1  
Command type: GET CARD READER STATUS  
Command qualifier: Card Reader Status

## Device identities

Source device: SIM  
Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	33	00	82	02	81	82
----------	----	----	----	----	----	----	----	----	----	----	----

TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1a

Logically:

## Command details

Command number: 1  
Command type: GET CARD READER STATUS  
Command qualifier: Card reader status

## Device identities

Source device: ME  
Destination device: SIM

## Result

General Result: Command performed successfully

## Card reader status

Identity of card reader: 01  
Card reader removable: Yes  
Card reader present: No  
Card reader ID-1 size: Yes

Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	29							

TERMINAL RESPONSE: GET CARD READER STATUS 2.1.1b

Logically:

Command details  
 Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: Card reader status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: Yes  
 Card reader present: No  
 Card reader ID-1 size: No  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	09							

#### 27.22.4.20.2.5 Test requirement

The 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 11.14 [15] clause 5.2, clause 6.4.21, clause 6.8, clause 12.6, clause 12.7, clause 12.37 and clause 12.38.

##### 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 SIM 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 SIM 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.

## 27.22.4.21.1.4.2 Procedure

**Expected Sequence 1.1 (TIMER MANAGEMENT, start timer 1 several times, get the current value of the timer and deactivate the timer successfully)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.1	
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.1	[start timer 1]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.2	After 1 minute following reception of Terminal Response
6	ME → SIM	FETCH	
7		PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.2	[ask value of timer 1]
8	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.2	[command performed successfully]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.3	Before timer expires!
10	ME → SIM	FETCH	
11		PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.3	[reinitialize timer 1]
12	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.3	[command performed successfully]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.4	After 30 s following reception of the Terminal Response
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.4	[deactivate timer 1]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.4	[command performed successfully]

## PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

## Device identities

Source device: SIM  
 Destination device: ME

## Timer identifier

Identifier of timer: 1

## Timer value

Value of timer: 5 min

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	50	00					

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.2

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	01										

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.3

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 1

Timer value

Value of timer: 1min 30s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	10	03					

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.4

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	01										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.1 and 1.1.3

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 1

Coding::

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.2

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 1

Timer value

Value of timer: value < to the timer value of command 1.1.1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	00
	A4	01	01	A5	03	xx	xx	xx				

TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.4

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 1

Timer value

Value of timer: value &lt; to the timer value of command 1.1.3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	00
	A4	01	01	A5	03	XX	XX	XX				

**Expected Sequence 1.2 (TIMER MANAGEMENT, start timer 2 several times, get the current value of the timer and deactivate the timer successfully)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.1	
2	ME → SIM	FETCH	
3	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.1	[start timer 2]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.2	After 1 minute following reception of Terminal Response
6	ME → SIM	FETCH	
7	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.2	[ask value of timer 2]
8	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.2	[command performed successfully]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.3	Before timer expires!
10	ME → SIM	FETCH	
11	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.3	[reinitialize timer 2]
12	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.3	[command performed successfully]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.4	After 10 seconds following reception of Terminal Response
14	ME → SIM	FETCH	
15	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.4	[deactivate timer 2]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.4	[command performed successfully]

PROACTIVE COMMAND:TIMER MANAGEMENT 1.2.1

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 2

Timer value

Value of timer: 23 h 59 min 59 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	02	A5	03	32	95	95					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.2

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	02										

PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.3

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 2

Timer value

Value of timer: 1 min 10 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	02	A5	03	00	10	01					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.4

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	02										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.1 and 1.2.3

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 2

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	02									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.2

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 2

Timer value

Value of timer: value < to the timer value of command 1.2.1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	00
	A4	01	02	A5	03	xx	xx	xx				

TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.4

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 2

Timer value

Value of timer: value &lt; to the timer value of command 1.2.3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	00
	A4	01	02	A5	03	XX	XX	XX				

**Expected Sequence 1.3 (TIMER MANAGEMENT, start timer 8 several times, get the current value of the timer and deactivate the timer successfully)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.1	
2	ME → SIM	FETCH	
3	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.1	[start timer 8]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.2	After 1 minute following reception of Terminal Response
6	ME → SIM	FETCH	
7	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.2	[ask value of timer 8]
8	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.2	[command performed successfully]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.3	Before timer expires!
10	ME → SIM	FETCH	
11	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.3	[reinitialize timer 8]
12	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.3	[command performed successfully]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.4	After 30 seconds following reception of Terminal Response
14	ME → SIM	FETCH	
15	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.4	[deactivate timer 8]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.4	[command performed successfully]

#### PROACTIVE COMMAND:TIMER MANAGEMENT 1.3.1

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 8

Timer value

Value of timer: 20min

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	08	A5	03	00	02	00					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.2

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	08										

PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.3

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 8

Timer value

Value of timer: 01 h 00 min 00 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	08	A5	03	10	00	00					

PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.4

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	08										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.1 and 1.3.3

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully  
 Timer identifier  
 Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	08									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.2

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully  
 Timer identifier  
 Identifier of timer: 8

Timer value

Value of timer: value < to the timer value of command 1.3.1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	00
	A4	01	08	A5	03	xx	xx	xx				

TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.4

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 8

Timer value

Value of timer: value < to the timer value of command 1.3.3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	00
	A4	01	08	A5	03	xx	xx	xx				

**Expected 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.1	
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.1	[get current value from timer 1]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1B	[action in contradiction with the current timer state]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.2	
6	ME → SIM	FETCH	
7		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.2	[get current value from timer 2]
8	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2B	[action in contradiction with the current timer state]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.3	
10	ME → SIM	FETCH	
11		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.3	[get current value from timer 3]
12	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3B	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.4	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.4	[get current value from timer 4]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4B	[action in contradiction with the current timer state]
17	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.5	
18	ME → SIM	FETCH	
19		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.5	[get current value from timer 5]
20	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5B	[action in contradiction with the current timer state]
21	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.6	
22	ME → SIM	FETCH	
23		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.6	[get current value from timer 6]
24	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6B	[action in contradiction with the current timer state]

Step	Direction	MESSAGE / Action	Comments
25	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.7	
26	ME → SIM	FETCH	
27	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.7	[get current value from timer 7]
28	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7B	[action in contradiction with the current timer state]
29	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.8	
30	ME → SIM	FETCH	
31	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.8	[get current value from timer 8]
32	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8B	[action in contradiction with the current timer state]

## PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.1

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

## Device identities

Source device: SIM  
 Destination device: ME

## Timer identifier

Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	01										

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1A

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

## Timer identifier

Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	01									

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1B

Logically:

Command details	
Command number:	1
Command type:	TIMER MANAGEMENT
Command qualifier:	get current value from the Timer
Device identities	
Source device:	ME
Destination device:	SIM
Result	
General Result:	Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
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## PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.2

Logically:

Command details	
Command number:	1
Command type:	TIMER MANAGEMENT
Command qualifier:	get the current value of the Timer
Device identities	
Source device:	SIM
Destination device:	ME
Timer identifier	
Identifier of timer:	2

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	02										

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2A

Logically:

Command details	
Command number:	1
Command type:	TIMER MANAGEMENT
Command qualifier:	get current value from the Timer
Device identities	
Source device:	ME
Destination device:	SIM
Result	
General Result:	Action in contradiction with the current timer state
Timer identifier	
Identifier of timer:	2

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	02									

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2B

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
----------	----	----	----	----	----	----	----	----	----	----	----	----

## PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.3

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

## Device identities

Source device: SIM  
 Destination device: ME

## Timer identifier

Identifier of timer: 3

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	03										

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3A

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

## Timer identifier

Identifier of timer: 3

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	03									

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3B

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
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## PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.4

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

## Device identities

Source device: SIM  
 Destination device: ME

## Timer identifier

Identifier of timer: 4

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	04										

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4A

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

## Timer identifier

Identifier of timer: 4

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	04									

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4B

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
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#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.5

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier  
 Identifier of timer: 5

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	05										

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5A

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Action in contradiction with the current timer state  
 Timer identifier  
 Identifier of timer: 5

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	05									

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5B

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
----------	----	----	----	----	----	----	----	----	----	----	----	----

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.6

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

##### Device identities

Source device: SIM  
 Destination device: ME

##### Timer identifier

Identifier of timer: 6

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	06										

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6A

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Action in contradiction with the current timer state

##### Timer identifier

Identifier of timer: 6

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	06									

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6B

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
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#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.7

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

##### Device identities

Source device: SIM  
 Destination device: ME

##### Timer identifier

Identifier of timer: 7

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	07										

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7A

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Action in contradiction with the current timer state

##### Timer identifier

Identifier of timer: 7

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	07									

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7B

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
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PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.8

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	02	82	02	81	82	A4
	01	08										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8A

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Action in contradiction with the current timer state

Timer identifier

Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
	A4	01	08									

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8B

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get current value from the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	02	82	02	82	81	83	01	24
----------	----	----	----	----	----	----	----	----	----	----	----	----

**Expected Sequence1.5 (TIMER MANAGEMENT, try to deactivate a timer which is not started: action in contradiction with the current timer state)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.1	
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.1	[deactivate timer 1]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1B	[action in contradiction with the current timer state]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.2	
6	ME → SIM	FETCH	
7		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.2	[deactivate timer 2]
8	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2B	[action in contradiction with the current timer state]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.3	
10	ME → SIM	FETCH	
11		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.3	[deactivate timer 3]
12	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3B	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.4	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.4	[deactivate timer 4]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4B	[action in contradiction with the current timer state]
17	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.5	
18	ME → SIM	FETCH	
19		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.5	[deactivate timer 5]
20	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5B	[action in contradiction with the current timer state]
21	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.6	
22	ME → SIM	FETCH	
23		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.6	[deactivate timer 6]
24	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6B	[action in contradiction with the current timer state]

Step	Direction	MESSAGE / Action	Comments
25	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.7	
26	ME → SIM	FETCH	
27	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.7	[deactivate timer 7]
28	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7B	[action in contradiction with the current timer state]
29	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.8	
30	ME → SIM	FETCH	
31	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.8	[deactivate timer 8]
32	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8A or TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8B	[action in contradiction with the current timer state]

## PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.1

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

## Device identities

Source device: SIM  
 Destination device: ME

## Timer identifier

Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	01										

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1A

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

## Timer identifier

Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	01									

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.1B

Logically:

Command details	
Command number:	1
Command type:	TIMER MANAGEMENT
Command qualifier:	Deactivate Timer
Device identities	
Source device:	ME
Destination device:	SIM
Result	
General Result:	Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
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## PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.2

Logically:

Command details	
Command number:	1
Command type:	TIMER MANAGEMENT
Command qualifier:	deactivate the Timer
Device identities	
Source device:	SIM
Destination device:	ME
Timer identifier	
Identifier of timer:	2

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	02										

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2A

Logically:

Command details	
Command number:	1
Command type:	TIMER MANAGEMENT
Command qualifier:	Deactivate Timer
Device identities	
Source device:	ME
Destination device:	SIM
Result	
General Result:	Action in contradiction with the current timer state
Timer identifier	
Identifier of timer:	2

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	02									

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.2B

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
----------	----	----	----	----	----	----	----	----	----	----	----	----

## PROACTIVE COMMAND3: TIMER MANAGEMENT 1.5.3

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

## Device identities

Source device: SIM  
 Destination device: ME

## Timer identifier

Identifier of timer: 3

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	03										

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3A

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

## Timer identifier

Identifier of timer: 3

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	03									

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.3B

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
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## PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.4

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

## Device identities

Source device: SIM  
 Destination device: ME

## Timer identifier

Identifier of timer: 4

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	04										

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4A

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

## Timer identifier

Identifier of timer: 4

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	04									

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.4B

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
----------	----	----	----	----	----	----	----	----	----	----	----	----

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.5

Logically:

Command details

Command number: 1  
Command type: TIMER MANAGEMENT  
Command qualifier: deactivate the Timer

Device identities

Source device: SIM  
Destination device: ME

Timer identifier

Identifier of timer: 5

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	05										

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5A

Logically:

Command details

Command number: 1  
Command type: TIMER MANAGEMENT  
Command qualifier: Deactivate Timer

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Action in contradiction with the current timer state

Timer identifier

Identifier of timer: 5

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	05									

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5B

Logically:

Command details

Command number: 1  
Command type: TIMER MANAGEMENT  
Command qualifier: Deactivate Timer

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
----------	----	----	----	----	----	----	----	----	----	----	----	----

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.6

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

##### Device identities

Source device: SIM  
 Destination device: ME

##### Timer identifier

Identifier of timer: 6

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	06										

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6A

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Action in contradiction with the current timer state

##### Timer identifier

Identifier of timer: 6

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	06									

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6B

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
----------	----	----	----	----	----	----	----	----	----	----	----	----

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.7

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

##### Device identities

Source device: SIM  
 Destination device: ME

##### Timer identifier

Identifier of timer: 7

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	07										

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7A

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Action in contradiction with the current timer state

##### Timer identifier

Identifier of timer: 7

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	07									

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7B

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
----------	----	----	----	----	----	----	----	----	----	----	----	----

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.8

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

##### Device identities

Source device: SIM  
 Destination device: ME

##### Timer identifier

Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	01	82	02	81	82	A4
	01	08										

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8A

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Action in contradiction with the current timer state

##### Timer identifier

Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
	A4	01	08									

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8B

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: Deactivate Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Action in contradiction with the current timer state

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	24
----------	----	----	----	----	----	----	----	----	----	----	----	----

## Expected Sequence 1.6 (TIMER MANAGEMENT, start 8 timers successfully)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.1	
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.1	[timer 1]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.2	
6	ME → SIM	FETCH	
7		PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.2	[timer 2]
8	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.2	[command performed successfully]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.3	
10	ME → SIM	FETCH	
11		PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.3	[timer 3]
12	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.3	[command performed successfully]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.4	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.4	[timer 4]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.4	[command performed successfully]
17	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.5	
18	ME → SIM	FETCH	
19		PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.5	[timer 5]
20	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.5	[command performed successfully]
21	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.6	
22	ME → SIM	FETCH	
23		PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.6	[timer 6]
24	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.6	[command performed successfully]
25	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.7	
26	ME → SIM	FETCH	
27		PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.7	[timer 7]
28	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.7	[command performed successfully]
29	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.6.8	
30	ME → SIM	FETCH	
31		PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.8	[timer 8]
32	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.8	[command performed successfully]

## PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.1

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

## Device identities

Source device: SIM  
 Destination device: ME

## Timer identifier

Identifier of timer: 1

## Timer value

Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	00	50					

## TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.1

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Timer identifier

Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

## PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.2

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

## Device identities

Source device: SIM  
 Destination device: ME

## Timer identifier

Identifier of timer: 2

## Timer value

Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	02	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.2

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 2

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	02									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.3

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 3

Timer value

Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	03	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.3

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 3

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	03									

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.4

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

##### Device identities

Source device: SIM  
 Destination device: ME

##### Timer identifier

Identifier of timer: 4

##### Timer value

Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	04	A5	03	00	00	50					

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.4

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Command performed successfully

##### Timer identifier

Identifier of timer: 4

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	04									

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.5

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

##### Device identities

Source device: SIM  
 Destination device: ME

##### Timer identifier

Identifier of timer: 5

##### Timer value

Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	05	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.5

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully  
 Timer identifier  
 Identifier of timer: 5

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	05									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.6

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 6

Timer value

Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	06	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.6

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully  
 Timer identifier  
 Identifier of timer: 6

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	06									

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.7

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

##### Device identities

Source device: SIM  
 Destination device: ME

##### Timer identifier

Identifier of timer: 7

##### Timer value

Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	07	A5	03	00	00	50					

#### TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.7

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

##### Device identities

Source device: ME  
 Destination device: SIM

##### Result

General Result: Command performed successfully

##### Timer identifier

Identifier of timer: 7

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	07									

#### PROACTIVE COMMAND: TIMER MANAGEMENT 1.6.8

Logically:

##### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

##### Device identities

Source device: SIM  
 Destination device: ME

##### Timer identifier

Identifier of timer: 8

##### Timer value

Value of timer: 5 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	08	A5	03	00	00	50					

TERMINAL RESPONSE: TIMER MANAGEMENT 1.6.8

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	08									

#### 27.22.4.21.1.5 Test requirement

The 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 11.14 [15] clause 4.10, clause 10.1 and clause 10.2.

The ME shall support the TIMER MANAGEMENT as defined in the following technical specifications:

- TS 11.14 [15] clause 5.2, clause 6.4.21, clause 6.8, clause 12.6, clause 12.7, clause 12.37 and clause 12.38.

##### 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 SIM Simulator.

The elementary files are coded as SIM Application Toolkit default.

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 SIM 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 SIM command)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 2.1.1	
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND: TIMER MANAGEMENT 2.1.1	[timer 1]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 2.1.1	[command performed successfully]
5	ME → SIM	ENVELOPE: TIMER EXPIRATION 2.1.1	
6	SIM → ME	PROACTIVE COMMAND PENDING: MORE TIME X.1(or an other SAT command tested before to ensure it is properly supported by the mobile).	[response to envelope is "91 xx"]
7	ME → SIM	FETCH	

##### PROACTIVE COMMAND: TIMER MANAGEMENT 2.1.1

Logically:

###### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

###### Device identities

Source device: SIM  
 Destination device: ME

###### Timer identifier

Identifier of timer: 1

###### Timer value

Value of timer: 0 h 0 min 10 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	00	01					

##### TERMINAL RESPONSE: TIMER MANAGEMENT 2.1.1

Logically:

###### Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

###### Device identities

Source device: ME  
 Destination device: SIM

###### Result

General Result: Command performed successfully

###### Timer identifier

Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

ENVELOPE: TIMER EXPIRATION 2.1.1

Logically:

Device identities

Source device:	ME
Destination device:	SIM

Timer identifier

Timer 1

Timer value

Hour:	'00'
Minute:	'00'
Second:	'10' ± 1 s

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

## Expected Sequence 2.2 (TIMER EXPIRATION, SIM application toolkit busy)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 2.2.1	
2	ME → SIM	FETCH	
3	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 2.2.1	[timer 1]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 2.2.1	[command performed successfully]
5	ME → SIM	ENVELOPE: TIMER EXPIRATION 2.2.1A	
6	SIM → ME	PROACTIVE SIM SESSION BUSY	[SIM is busy; response to the envelope = "93 00"]
...			[SIM is busy during 10 seconds. If the ME periodically retries to send the envelope until it is accepted, then step 7a-10a apply. If the ME does not periodically retry to send the envelope, e.g. it waits for a TERMINAL RESPONSE processed by the SIM with status '90 00', then step 7b – 14b apply]
7a	ME → SIM	ENVELOPE: TIMER EXPIRATION 2.2.1B	[Branch applies for MEs periodically retrying to send the envelope]
8a	SIM → ME	PROACTIVE SIM SESSION BUSY	[SIM is busy, response to the envelope = "93 00"]
9a	ME → SIM	ENVELOPE: TIMER EXPIRATION 2.2.1C	
10a	SIM → ME	SW1/SW2=90 00	
7b	ME → SIM	STATUS or other command	[Branch applies for MEs not periodically retrying to send the envelope (in compliance with TS 11.14 [15], cl. 10.1)]
			Steps 7b – 12b are repeated maximal 100 times (to prevent infinite testing) or until the terminals sends ENVELOPE: TIMER EXPIRATION 2.2.1B in step 13b or at any time during steps 7b – 12b (in latter case step 13b is obsolete).
8b	SIM → ME	Response to the command issued in step 7b PROACTIVE COMMAND PENDING	[SW1/SW2=91 xx]
9b	ME → SIM	FETCH	
10b	SIM → ME	PROACTIVE COMMAND: e.g. MORE TIME 2.2.2	
11b	ME → SIM	TERMINAL RESPONSE: e.g. MORE TIME 2.2.2	[command performed successfully]
12b	SIM → ME	Response to the command issued in step 11b	[SW1/SW2 = 90 00]
13b	ME → SIM	ENVELOPE: TIMER EXPIRATION 2.2.1B	
14b	SIM → ME	SW1/SW2=90 00	

## PROACTIVE COMMAND: TIMER MANAGEMENT 2.2.1

Logically:

## Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

## Device identities

Source device: SIM  
 Destination device: ME

Timer identifier

Identifier of timer: 1

Timer value

Value of timer: 0 h 0 min 30 s

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	01	A5	03	00	00	03					

TERMINAL RESPONSE: TIMER MANAGEMENT 2.2.1

Logically:

Command details

Command number: 1

Command type: TIMER MANAGEMENT

Command qualifier: start the Timer

Device identities

Source device: ME

Destination device: SIM

Result

General Result: Command performed successfully

Timer identifier

Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	01									

ENVELOPE: TIMER EXPIRATION 2.2.1A

Logically:

Device identities

Source device: ME

Destination device: SIM

Timer identifier

Timer 1

Timer value

Hour: '00'

Minute: '00'

Second: '30' ± 1 s

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

ENVELOPE: TIMER EXPIRATION 2.2.1B

Logically:

Device identities

Source device: ME

Destination device: SIM

Timer identifier

Timer 1

Timer value

Hour: '00'

Minute: '00'

Second: ≥ timer in clause 2.2.1A

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

ENVELOPE: TIMER EXPIRATION 2.2.1C

Logically:

Device identities

Source device: ME  
Destination device: SIM

Timer identifier

Timer 1

Timer value

Hour: '00'  
Minute: '00'  
Second: ≥ timer in 2.2.1B

Coding:

BER-TLV:	D7	0C	82	02	82	81	A4	01	01	A5	03	00
	00	xx										

PROACTIVE COMMAND: MORE TIME 2.2.2

Logically:

Command details

Command number: 1  
Command type: MORE TIME  
Command qualifier: "00"

Device identities

Source device: SIM  
Destination device: ME

Coding:

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

TERMINAL RESPONSE: MORE TIME 2.2.2

Logically:

Command details

Command number: 1  
Command type: MORE TIME  
Command qualifier: "00"

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	02	00	82	02	82	81	83	01	00
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#### 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 11.14 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 11.6, clause 6.8, clause 11, clause 11.1, clause 12.25, clause 6.4.7 and clause 6.6.13.

Additionally the ME shall support the REFRESH proactive SIM facility as defined in:

- TS 11.14 [15] clause 5.2, clause 6.1, clause 6.4.7, clause 6.6.13, clause 6.11, clause 12.6, clause 12.12, clause 13.4 and clause 14.

#### 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 SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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.

##### 27.22.4.22.1.4.2 Procedure

#### Expected Sequence 1.1 (SET UP IDLE MODE TEXT, display idle mode text)

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	[Idle Mode Text]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	[Command performed successfully]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1

Logically:

##### Command details

Command number:	1
Command type:	SET UP IDLE MODE TEXT
Command qualifier:	RFU

##### Device identities

Source device:	SIM
Destination device:	ME

Text String

Data coding scheme: unpacked, 8 bit data  
Text: "Idle Mode Text"

Coding:

BER-TLV:	D0	1A	81	03	01	28	00	82	02	81	82	8D
	0F	04	49	64	6C	65	20	4D	6F	64	65	20
	54	65	78	74								

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1

Logically:

Command details

Command number: 1  
Command type: SET UP IDLE MODE TEXT  
Command qualifier: RFU

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00
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**Expected Sequence 1.2 (SET UP IDLE MODE TEXT, replace idle mode text)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	[Idle Mode Text]
4	ME → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.2.1	[Idle Mode Text]
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.2.1	[Idle Mode Text]
10	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.2.1	
11	SIM → ME	PROACTIVE SIM SESSION ENDED	
12	USER → ME	Select idle screen	Only if idle screen not already available
13	ME → USER	Display "Toolkit Test"	

PROACTIVE COMMAND: SETUP IDLE MODE TEXT 1.2.1

Logically:

Command details

Command number: 1  
Command type: SETUP IDLE MODE TEXT  
Command qualifier: RFU

Device identities

Source device: SIM

Destination device: ME  
 Text String  
 Data coding scheme: unpacked, 8 bit data  
 Text: "Toolkit Test"

Coding:

BER-TLV:	D0	18	81	03	01	28	00	82	02	81	82	8D
	0D	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74										

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.2.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00
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#### Expected Sequence 1.3 (SET UP IDLE MODE TEXT, remove idle mode text)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	["Idle Mode Text"]
4	ME → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.3.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.3.1	[Remove idle mode text]
10	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.3.1	
11	SIM → ME	PROACTIVE SIM SESSION ENDED	
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	

PROACTIVE COMMAND: SETUP IDLE MODE TEXT 1.3.1

Logically:

Command details  
 Command number: 1  
 Command type: SETUP IDLE MODE TEXT  
 Command qualifier: RFU  
 Device identities  
 Source device: SIM

Destination device: ME  
 Text String: zero length TLV

Coding:

BER-TLV:	D0	0B	81	03	01	28	00	82	02	81	82	8D
	00											

#### TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.3.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00
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## Expected Sequence 1.4 (SET UP IDLE MODE TEXT, competing information on ME display)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	["Idle Mode Text"]
4	ME → SIM	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	SS → 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	SIM → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.4.1	
12	ME → SIM	FETCH	
13	SIM → 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 → SIM	TERMINAL RESPONSE: DISPLAY TEXT 1.4.1	[Command performed successfully]
17	ME → USER	Display "Idle Mode Text"	
18	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.4.1	
19	ME → SIM	FETCH	
20	SIM → 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 → SIM	TERMINAL RESPONSE: PLAY TONE 1.4.1	[Command performed successfully]
23	SIM → ME	PROACTIVE SIM 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: SIM  
 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: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	21	80	82	02	82	81	83	01	00
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#### PROACTIVE COMMAND: PLAY TONE 1.4.1

Logically:

Command details  
 Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 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: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	20	00	82	02	82	81	83	01	00
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#### Expected Sequence 1.5 (SET UP IDLE MODE TEXT, ME power cycled)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	["Idle Mode Text"]
4	ME → SIM	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 ↔ SIM	GSM TERMINATION PROCEDURE	
9	USER → ME	Power on ME	
10	ME ↔ SIM	GSM ACTIVATION PROCEDURE	
11	ME ↔ SIM	SIM 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 SIM Initialization)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	[Idle Mode Text]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1	
4	ME → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 1.6.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: REFRESH 1.6.1	[SIM Initialization]
10	ME ↔ SIM	SIM 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 → SIM	TERMINAL RESPONSE: REFRESH 1.6.1A or TERMINAL RESPONSE: REFRESH 1.6.1B	[Command performed successfully]
14	SIM → ME	PROACTIVE SIM SESSION ENDED	[Command performed successfully with additional files read]

**PROACTIVE COMMAND: REFRESH 1.6.1**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialization

## Device identities

Source device: SIM  
 Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	01	03	82	02	81	82
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**TERMINAL RESPONSE: REFRESH 1.6.1A**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialization

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	03	82	02	82	81	83	01	00
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TERMINAL RESPONSE: REFRESH 1.6.1B

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialization

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: REFRESH performed with additional EFs read

Coding:

BER-TLV:	81	03	01	01	03	82	02	82	81	83	01	03
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**Expected Sequence 1.7 (SET UP IDLE MODE TEXT, large text string)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.7.1	[large text string]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.7.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.7.1	[command performed successfully]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	
7	ME → USER	Display "The SIM shall supply a text string, which shall be displayed by the ME as an idle mode text if the ME is able to do it. The presentation style is left as an implementation decision to the ME manufacturer. The idle mode text shall be displayed in a manner that ensures that ne"	Only if idle screen not already available [274 characters]

**PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.7.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

Device identities

Source device: SIM  
 Destination device: ME

Text String

Data coding scheme: packed, SMS default alphabet  
 Text: "The SIM shall supply a text string, which shall be displayed by the ME as an idle mode text if the ME is able to do it. The presentation style is left as an implementation decision to the ME manufacturer. The idle mode text shall be displayed in a manner that ensures that ne"

Coding:

BER-TLV:	D0	81	FD	81	03	01	28	00	82	02	81	82
	8D	81	F1	00	54	74	19	34	4D	36	41	73
	74	98	CD	06	CD	EB	70	38	3B	0F	0A	83
E8	65	3C	1D	34	A7	CB	D3	EE	33	0B	74	
47	A7	C7	68	D0	1C	1D	66	B3	41	E2	32	
88	9C	9E	C3	D9	E1	7C	99	0C	12	E7	41	
74	74	19	D4	2C	82	C2	73	50	D8	0D	4A	
93	D9	65	50	FB	4D	2 <sup>E</sup>	83	E8	65	3C	1D	
94	36	83	E8	E8	32	A8	59	04	A5	E7	A0	
B0	98	5D	06	D1	DF	20	F2	1B	94	A6	BB	
A8	E8	32	08	2E	2F	CF	CB	6E	7°	98	9E	
7E	BB	41	73	7°	9E	5D	06	A5	E7	20	76	
D9	4C	07	85	E7	A0	B0	1B	94	6E	C3	D9	
E5	76	D9	4D	0F	D3	D3	6F	37	88	5C	1E	
A7	E7	E9	B7	1B	44	7F	83	E8	E8	32	A8	
59	04	B5	C3	EE	BA	39	3C	A6	D7	E5	65	
B9	0B	44	45	97	41	69	32	BB	0C	6A	BF	
C9	65	10	BD	8C	A7	83	E6	E8	30	9B	0D	
12	97	41	E4	F4	1C	CE	0E	E7	CB	64	50	
DA	0D	0A	83	DA	61	B7	BB	2C	07	D1	D1	
61	3A	A8	EC	9E	D7	E5	E5	39	88	8E	0E	
D3	41	EE	32									

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.7.1

Logically:

#### Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command q ualifier: RFU

#### Device identities

Source device: ME  
 Destination device: SIM

#### Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00
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#### 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 SIM provides an icon identifier with a proactive command, then the ME shall inform the SIM 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 SIM, then 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 SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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 System Simulator.

##### 27.22.4.22.2.4.2 Procedure

#### **Expected Sequence 2.1A (SET UP IDLE MODE TEXT, Icon is self-explanatory, successful)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.1.1	[Icon is self-explanatory]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1A	[command performed successfully]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display the icon	

#### PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.1.1

Logically:

##### Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

##### Device identities

Source device: SIM  
 Destination device: ME

Text String: "Idle text"

##### Icon identifier

Icon qualifier: icon is self-explanatory  
 Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	19	81	03	01	28	00	82	02	81	82	8D
	0A	04	49	64	6C	65	20	74	65	78	74	9E
	02	00	01									

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1A

Logically:

Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00
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**Expected Sequence 2.1B (SET UP IDLE MODE TEXT, Icon is self-explanatory, requested icon could not be displayed)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.1.1	[Icon is self-explanatory]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle text" without the icon	

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.1.1B

Logically:

Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	04
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## Expected Sequence 2.2A (SET UP IDLE MODE TEXT, Icon is not self-explanatory, successful)

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.2.1	[Icon is not self-explanatory]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.2.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1A	[command performed successfully]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display icon #1 and "Idle text"	

## PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.2.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

## Device identities

Source device: SIM  
 Destination device: ME  
 Text String: "Idle text"

## Icon identifier

Icon qualifier: icon is not self-explanatory  
 Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	19	81	03	01	28	00	82	02	81	82	8D
	0A	04	49	64	6C	65	20	74	65	78	74	9E
	02	01	01									

## TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1A

Logically:

## Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00
----------	----	----	----	----	----	----	----	----	----	----	----	----

**Expected Sequence 2.2B (SET UP IDLE MODE TEXT, Icon is not self-explanatory, requested icon could not be displayed)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.2.1	[Icon is not self-explanatory]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.2.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1B	[Command performed successfully, but requested icon could not be displayed]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle text" without the icon	

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.2.1B

Logically:

Command details

Command number: 1  
Command type: SET UP IDLE MODE TEXT  
Command qualifier: RFU

Device identities

Source device: ME  
Destination device: SIM

Result

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

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	04
----------	----	----	----	----	----	----	----	----	----	----	----	----

**Expected Sequence 2.3A (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, successful)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.3.1	[Icon is self-explanatory]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1A	[command performed successfully]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display the icon	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1

Logically:

Command details

Command number: 1  
Command type: SET UP IDLE MODE TEXT  
Command qualifier: RFU

Device identities

Source device: SIM  
Destination device: ME  
Text String: "Idle text"

Icon identifier

Icon qualifier: icon is self-explanatory  
 Icon identifier: <record 2 in EF IMG>

Coding:

BER-TLV:	D0	19	81	03	01	28	00	82	02	81	82	8D
	0A	04	49	64	6C	65	20	74	65	78	74	9E
	02	00	02									

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1A

Logically:

Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00
----------	----	----	----	----	----	----	----	----	----	----	----	----

**Expected Sequence 2.3B (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, requested icon could not be displayed)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.3.1	[Icon is self-explanatory]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1B	[requested icon could not be displayed]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display “Idle text” without the icon	

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1B

Logically:

Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	04
----------	----	----	----	----	----	----	----	----	----	----	----	----

**Expected Sequence 2.4 (SET UP IDLE MODE TEXT, Icon is not self-explanatory, empty text string)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.4.1	[Icon is not self-explanatory, empty text string]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.4.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.4.1	
5	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.4.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

## Device identities

Source device: SIM  
 Destination device: ME

## Text string

Contents: null data object

## Icon identifier

Icon qualifier: icon is not self-explanatory  
 Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	0F	81	03	01	28	00	82	02	81	82	8D
	00	9E	02	01	01							

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.4.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	32
----------	----	----	----	----	----	----	----	----	----	----	----	----

**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 SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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 System Simulator.

##### 27.22.4.22.3.4.2 Procedure

#### Expected Sequence 3.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 3.1.1	["Hello" in Russian]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 3.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 3.1.1	
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]

#### PROACTIVE COMMAND: SET UP IDLE MODE TEXT 3.1.1

Logically:

##### Command details

Command number:	1
Command type:	SET UP IDLE MODE TEXT
Command qualifier:	RFU

##### Device identities

Source device:	SIM
Destination device:	ME

##### Text String

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

Coding:

BER-TLV:	D0	24	81	03	01	28	00	82	02	81	82	8D
	19	08	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15										

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 3.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00
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#### 27.22.4.22.3.5 Test requirement

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

### 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 SIM: RUN AT COMMAND facility as defined in:

- TS 11.14 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 12.6, clause 12.7, clause 12.2, clause 12.40, clause 12.31 and clause 12.41.
- 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 SIM.

##### 27.22.4.23.1.4 Method of test

##### 27.22.4.23.1.4.1 Initial conditions

The ME is connected to the SIM 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	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	[Command performed successfully, AT Response containing IMSI]

##### PROACTIVE SIM 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: SIM  
 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: SIM

###### 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.2.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	[Command performed successfully, AT Response containing IMSI]

PROACTIVE SIM 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: SIM  
 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 1.3.1	[alpha identifier, request IMSI]
4	ME → USER	Display "Run AT Command"	
5	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	[Command performed successfully, AT Response containing IMSI]

PROACTIVE SIM 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: SIM  
 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 <sup>E</sup>	52	75	6 <sup>E</sup>	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 SIM: RUN AT COMMAND facility as defined in:

- TS 11.14 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 12.6, clause 12.7, clause 12.2, clause 12.40, clause 12.31 and clause 12.41.
- 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 SIM.

In addition to verify that if an icon is provided by the SIM, 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 SIM 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	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	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: SIM  
 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<sub>(IMG)</sub>

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: SIM

## 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	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	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: SIM

#### 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	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.2.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	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: SIM  
 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<sub>(IMG)</sub>

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	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.2.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.3.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	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: SIM

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<sub>(IMG)</sub>

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	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.3.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.4.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	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: SIM  
   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<sub>(IMG)</sub>

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	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.4.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.5.1	[BASIC-ICON, non self-explanatory]
4	ME → SIM	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: SIM  
 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<sub>(IMG)</sub>

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: SIM  
 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
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## 27.22.4.23.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.5.

## 27.22.4.24 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 SIM: Send DTMF facility as defined in:

- TS 11.14 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 12.12.2, clause 5.2, clause 12.6, clause 12.7, clause 12.2 and clause 12.44.

## 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 SIM command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the SIM.

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 SIM 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 SIM command.

To verify that if an alpha identifier is provided by the SIM 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 SIM Simulator and only connected to the System Simulator if the System Simulator is mentioned in the sequence table.

The elementary files are coded as SIM 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 System Simulator.

## 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 → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.1.1	
5	ME → SIM	FETCH	
6	SIM → 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 → SS ME	Start DTMF 1.1	["1"]
9	ME → SS	Start DTMF 1.2	No DTMF sending for 3 seconds ±20%
10	ME → SS		["2"]
11	ME → SIM	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
12	SIM → ME	PROACTIVE SIM 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: SIM  
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: SIM

## Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00
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**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 → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.2.1	
5	ME → SIM	FETCH	
6	SIM → 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 → SS	Start DTMF 1.1	["1"]
9	ME → SS	Start DTMF 1.2	["2"]
10	ME → SS	Start DTMF 1.3	["3"]
11	ME → SS	Start DTMF 1.4	["4"]
12	ME → SS	Start DTMF 1.5	["5"]
13	ME → SS	Start DTMF 1.6	["6"]
14	ME → SS	Start DTMF 1.7	["7"]
15	ME → SS	Start DTMF 1.8	["8"]
16	ME → SS	Start DTMF 1.9	["9"]
17	ME → SS	Start DTMF 1.10	["0"]
18	ME → SIM	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
19	SIM → ME	PROACTIVE SIM 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: SIM  
 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.

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.3.1	
5	ME → SIM	FETCH	
6	SIM → 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 → SS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 30 seconds ±20%
10	ME → SS	Start DTMF 1.2	["2"]
11	ME → SIM	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
12	SIM → ME	PROACTIVE SIM 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: SIM  
 Destination device: Network  
 Alpha identifier: "" (null data object)  
 DTMF String: "1" 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.1.1	[Mobile is not in a speech call]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND DTMF 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SEND DTMF 1.4.1	[ME currently unable to process command, not in speech call]
5	SIM → ME	PROACTIVE SIM 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: SIM

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.

#### 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 SIM: Send DTMF facility as defined in:

- TS 11.14 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 12.12.2, clause 5.2, clause 12.6, clause 12.7, clause 12.2, clause 12.44, clause 12.31 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 SIM command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the SIM.

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 SIM command.

To verify that the ME displays the icons which are referred to in the contents of the SEND DTMF proactive SIM 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 System Simulator.

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 → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.1.1	
5	ME → SIM	FETCH	[BASIC-ICON, self-explanatory]
6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.1.1	
7	ME → USER	Display the BASIC-ICON  Do not locally generate audible DTMF tones and play them to the user.	
8	ME → SS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → SS	Start DTMF 1.2	["2"]
11	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12	SIM → ME	PROACTIVE SIM 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: SIM  
 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<sub>(IMG)</sub>

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: SIM

## Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00
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**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 → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.1.1	
5	ME → SIM	FETCH	
6	SIM → 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 → SS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20 %
10	ME → SS	Start DTMF 1.2	["2"]
11	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12	SIM → ME	PROACTIVE SIM 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: SIM

## 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
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**Expected Sequence 2.2A (SEND DTMF, COLOUR-ICON self explanatory, successful)**

Some details of the DTMF protocol have been left out for clarity.

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.2.1	
5	ME → SIM	FETCH	[COLOUR-ICON]
6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.2.1	
7	ME → USER	Display the COLOUR-ICON  Do not locally generate audible DTMF tones and play them to the user.	
8	ME → SS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → SS	Start DTMF 1.2	["2"]
11	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12	SIM → ME	PROACTIVE SIM 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: SIM  
 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<sub>(IMG)</sub>

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 → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.2.1	
5	ME → SIM	FETCH	[COLOUR-ICON]
6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.2.1	
7	ME → USER	Display "Colour Icon" without the icon  Do not locally generate audible DTMF tones and play them to the user.	
8	ME → SS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → SS	Start DTMF 1.2	["2"]
11	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12	SIM → ME	PROACTIVE SIM 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 → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.3.1	
5	ME → SIM	FETCH	[Alpha identifier & BASIC-ICON, not self-explanatory]
6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.3.1	
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 → SS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20 %
10	ME → SS	Start DTMF 1.2	["2"]
11	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12	SIM → ME	PROACTIVE SIM 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: SIM  
 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<sub>(IMG)</sub>

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 → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.3.1	
5	ME → SIM	FETCH	
6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.3.1	
7	ME → USER	Display "Send DTMF" without the icon  Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier & BASIC-ICON, not self-explanatory]
8	ME → SS	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → SS	Start DTMF 1.2	["2"]
11	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12	SIM → ME	PROACTIVE SIM 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.

#### 27.22.4.24.3 SEND DTMF (UCS2 support)

##### 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 SIM: Send DTMF facility as defined in:

- TS 11.14 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 12.12.2, clause 5.2, clause 12.6, clause 12.7, clause 12.2 and clause 12.44.

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 SIM command, and returns a successful result in the TERMINAL RESPONSE command send to the SIM.

#### 27.22.4.24.3.4 Method of test

##### 27.22.4.24.3.4.1 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.

The elementary files are coded as SIM 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)**

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 → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 3.1.1	
5	ME → SIM	FETCH	
6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 3.1.1	
7	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
8	ME → SS	Start DTMF 1.1	[1]
9	ME		No DTMF sending for 3 seconds ±20%
10	ME → SS	Start DTMF 1.2	[2]
11	ME → SIM	TERMINAL RESPONSE: SEND DTMF 3.1.1	[Command performed successfully]
12	SIM → ME	PROACTIVE SIM 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: SIM  
 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: SIM  
 Result  
 General Result: Command performed successful

Coding:

BER-TLV:	81	03	01	14	00	82	02	82	81	83	01	00
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#### 27.22.4.12.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 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 SIM, as soon as possible after receiving the LANGUAGE NOTIFICATION proactive SIM command.

- TS 11.14 [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 SIM after the ME receives the LANGUAGE NOTIFICATION proactive SIM command.

#### 27.22.4.25.4 Method of Test

##### 27.22.4.25.4.1 Initial conditions

The ME is connected to the SIM 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)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: LANGUAGE NOTIFICATION 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.1.1	Language specified in the command is different from the one set on the mobile. [Command performed successfully]
4	ME → SIM	TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.1.1	
5	SIM → ME	PROACTIVE SIM SESSION ENDED	Language of ME may have been replaced by the one specified in LANGUAGE NOTIFICATION 1.1.1

##### PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.1.1

Logically:

###### Command details

Command number: 1  
 Command type: LANGUAGE NOTIFICATION  
 Command qualifier: "01" (specific language notification)

###### Device identities

Source device: SIM  
 Destination device: ME

###### Language

Language 'se'(Spanish) → 73 65  
 or 'de'→64 65 (German) for instance: choose a language different  
 from the one initially set on the ME to check the proper execution  
 of the command

Coding:

BER-TLV:	D0	0D	81	03	01	35	01	82	02	81	82	AD
	02	73	65									

##### TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.1.1

Logically:

###### Command details

Command number: 1  
 Command type: LANGUAGE NOTIFICATION  
 Command qualifier: "01"

###### Device identities

Source device: ME  
 Destination device: SIM

###### Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	35	01	82	02	82	81	83	01	00
----------	----	----	----	----	----	----	----	----	----	----	----	----

**Expected Sequence 1.2 (LANGUAGE NOTIFICATION)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: LANGUAGE NOTIFICATION 1.1.1	Language specified in the command is different from the one set on the mobile. [Command performed successfully]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: LANGUAGE NOTIFICATION 1.2.1	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.2.1	
8	ME → SIM	TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.2.1	
9	SIM → ME	PROACTIVE SIM SESSION ENDED	Check that initial language is set.

**PROACTIVE COMMAND: LANGUAGE NOTIFICATION 1.2.1**

Logically:

## Command details

Command number: 1  
 Command type: LANGUAGE NOTIFICATION  
 Command qualifier: "00" (non specific language notification)

## Device identities

Source device: SIM  
 Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	35	00	82	02	81	82
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**TERMINAL RESPONSE: LANGUAGE NOTIFICATION 1.2.1**

Logically:

## Command details

Command number: 1  
 Command type: LANGUAGE NOTIFICATION  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	35	00	82	02	82	81	83	01	00
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**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 SIM Command as defined in:

- TS 11.14 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 12.6, clause 12.7, clause 12.48, clause 13.2, clause 12.2, clause 12.47, clause 12.49, clause 12.50, clause 12.15 and clause 12.31.

#### 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 SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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.

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:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	31
Packet data protocol:	02 (IP)

#### GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

#### SIM/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		
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.1.1	[the ME is in idle mode]
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 1.1.1	[Command performed successfully]
7	ME→SS	The ME attempts to launch the session with the default browser parameters and the default URL.	
8	SIM → ME	PROACTIVE SIM 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: SIM  
 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: SIM

###### Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00
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#### Expected Sequence 1.2 (LAUNCH BROWSER, connect to the specified URL, alpha identifier length=0)

Step	Direction	MESSAGE / Action	Comments
0	ME		
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.2.1	[the ME is in idle mode]
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 1.2.1	[Command performed successfully]
7	ME→SS	The ME attempts to connect the URL specified in the LAUNCH BROWSER command.	
8	SIM → ME	PROACTIVE SIM 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: SIM  
 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: SIM

## Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00
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**Expected Sequence 1.3 (LAUNCH BROWSER, Browser identity, no alpha identifier)**

Step	Direction	MESSAGE / Action	Comments
0	ME		
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.3.1	[the ME is in idle mode]
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 1.3.1	[Command performed successfully]
7	ME→SS	The ME attempts to connect the default URL.	
8	SIM → ME	PROACTIVE SIM 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: SIM  
 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: SIM

## 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 SS)**

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode], GPRS supported by SS, 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	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.4.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1	[Command performed successfully]
7	ME→SS	The ME attempts to connect the default URL using the requested bearer and proxy identity	
8	SIM → ME	PROACTIVE SIM 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: SIM  
 Destination device: ME  
 URL empty  
 Bearer GPRS

Gateway/Proxy id

DCS unpacked, 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	2 <sup>E</sup>	64
	65	66	2 <sup>E</sup>	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: SIM

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 SIM Command as defined in:

- TS 11.14 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 12.6, clause 12.7, clause 12.48, clause 13.2, clause 12.2, clause 12.47, optional clause 12.49, optional clause 12.50, clause 12.15 and clause 12.31.

##### 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 SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 2.1.1	[Command performed successfully]
7	ME→SS	The ME does not close the existing session and attempts to connect the default URL.	
8	SIM → ME	PROACTIVE SIM 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: SIM  
 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: SIM

## Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00
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**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	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.2.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 2.2.1	[Command performed successfully]
7	ME→SS	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	SIM → ME	PROACTIVE SIM 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: SIM  
 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: SIM  
 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	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: LAUNCH BROWSER 2.3.1	[connect to the default URL, "launch browser, if not already launched"]
4	ME → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 2.3.1	[ME unable to process command - browser unavailable]
5	SIM → ME	PROACTIVE SIM 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: SIM  
   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: SIM  
 Result  
   General Result: Launch browser generic error code

Additional data                      Browser unavailable

Coding:

<b>BER-TLV:</b>	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 support)

##### 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 SIM Command as defined in:

- TS 11.14 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 12.6, clause 12.7, clause 12.48, clause 13.2, clause 12.2, clause 12.47, optional clause 12.49, optional clause 12.50, clause 12.15 and clause 12.31.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

##### 27.22.4.26.2.3                  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 SIM.

##### 27.22.4.26.3.4                  Method of test

###### 27.22.4.26.3.4.1                Initial conditions

The ME is connected to the SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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.

## 27.22.4.26.3.4.2 Procedure

**Expected Sequence 3.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
0	ME	The user is navigating in a browser session (not default URL)..	[Browser is in use, the current session is not secured]]
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 3.1.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 3.1.1	[Command performed successfully]
7	ME→SS	The ME does not close the existing session and attempts to connect the default URL.	
8	SIM → ME	PROACTIVE SIM 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: SIM  
 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: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00
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#### 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 SIM Command as defined in:

- TS 11.14 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 12.6, clause 12.7, clause 12.48, clause 13.2, clause 12.2, clause 12.47, optional clause 12.49, optional clause 12.50, clause 12.15 and clause 12.31.

##### 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 SIM.

##### 27.22.4.26.4.4 Method of test

###### 27.22.4.26.4.4.1 Initial conditions

The ME is connected to the SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.1.1	[Browser is in use, the current session is not secured]]
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 A	[Command performed successfully]
7	ME→SS	The ME does not close the existing session and attempts to connect the default URL.	
8	SIM → ME	PROACTIVE SIM 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: SIM  
 Destination device: ME  
 URL: empty  
 Alpha Identifier: "Not self explan."  
 Icon identifier:  
   Icon qualifier: not self-explanatory  
   Icon identifier: record 1 in EF<sub>(IMG)</sub>

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 <sup>E</sup>	2 <sup>E</sup>	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: SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.1.1	[Browser is in use, the current session is not secured]]
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 B	[Command performed successfully but requested icon could not be displayed]
7	ME→SS	The ME does not close the existing session and attempts to connect the default URL.	
8	SIM → ME	PROACTIVE SIM 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: SIM

#### 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.2.1	[Browser is in use, the current session is not secured]]
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 A	[Command performed successfully]
7	ME→SS	The ME does not close the existing session and attempts to connect the default URL.	
8	SIM → ME	PROACTIVE SIM 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: SIM  
 Destination device: ME  
 URL: empty  
 Alpha Identifier: "Self explan."  
 Icon identifier:  
   Icon qualifier: self-explanatory  
   Icon identifier: record 1 in EF<sub>(IMG)</sub>

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 <sup>E</sup>	2 <sup>E</sup>	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: SIM

## 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	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 4.2.1	[Browser is in use, the current session is not secured]]
2	ME → SIM	FETCH	
3	SIM → 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 → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 B	[Command performed successfully]
7	ME→SS	The ME does not close the existing session and attempts to connect the default URL.	[Command performed successfully but requested icon could not be displayed]
8	SIM → ME	PROACTIVE SIM 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: SIM

#### 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.

## 27.22.4.27 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 11.14 [15].

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 SIM after the ME receives the OPEN CHANNEL proactive command. The TERMINAL RESPONSE sent back to the SIM is the result of the ME and the network capabilities against requested parameters by the SIM.

27.22.4.27.2.4 Method of test

27.22.4.27.2.4.1 Initial conditions

The ME is connected to the SIM 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.

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.2/6.

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:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	31
Packet data protocol:	02 (IP)

### GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

SIM/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.2/5.

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.1/30), 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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.1.1	
3	ME → SIM	FETCH	
4	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.1.1	
5	ME → user	The ME may display channel opening information	
6	ME → SS	PDP context activation request	
7	SS → ME	PDP context activation accept	
8	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.1.1 A 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:	SIM
Destination device:	ME

###### Bearer

Bearer type:	GPRS
Bearer parameter:	
Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	31
Packet data protocol:	02 (IP)

###### Buffer

Buffer size:	1400
--------------	------

Text String: UserLog (User login)  
 Text String: UserPwd (User password)  
 SIM/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	02	04	05	05	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: SIM  
 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: 02  
 Delay Class: 04  
 Reliability Class: 05  
 Peak throughput class: 05  
 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	02	04	05	05	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: SIM  
 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: 05  
 Peak throughput class: 05  
 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	05	05	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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.2.1	
4	ME → user	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	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: SIM  
 Destination device: ME

## Bearer

Bearer type: GPRS  
 Bearer parameter:  
 Precedence Class: 02  
 Delay Class: 04  
 Reliability Class: 05  
 Peak throughput class: 05  
 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)

SIM/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	02	04	05	05	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: SIM

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: 02  
 Delay Class: 04  
 Reliability Class: 05  
 Peak throughput class: 05  
 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	02	04	05	05	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: SIM

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: 05  
 Peak throughput class: 05  
 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	05	05	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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.3.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	PDP context activation request	
7	SS → ME	PDP context activation accept	
8	ME → SIM	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: SIM  
 Destination device: ME

Alpha Identifier Open ID

Bearer

Bearer type: GPRS  
 Bearer parameter:  
 Precedence Class: 02  
 Delay Class: 04  
 Reliability Class: 05  
 Peak throughput class: 05  
 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)

SIM/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	02
	04	05	05	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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.4.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	PDP context activation request	
7	SS → ME	PDP context activation accept	
8	ME → SIM	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: SIM

Alpha Identifier Null

## Bearer

Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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)

## SIM/ME interface transport level

Transport format: UDP  
 Port number: 44444

Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	44	81	03	01	40	01	82	02	81	82	05
	00	35	07	02	02	04	05	05	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 2.5 (OPEN CHANNEL, immediate link establishment, GPRS, command performed with modifications (buffer size) )**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.5.1	
4	ME → user	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	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: SIM

#### Bearer

Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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)

#### SIM/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	02	04	05	05	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:	SIM
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: 02 Delay Class: 04 Reliability Class: 05 Peak throughput class: 05 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.2/5 "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	02	04	05	05	1F
	02	Note 1										

Note1: The buffer size TLV shall be attached and contain the value stated in table A.2/5 "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:	SIM
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: 05 Peak throughput class: 05 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.2/5 "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	05	05	1F
	02	Note 1										

Note1: The buffer size TLV shall be attached and contain the value stated in table A.2/5 "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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.7.1	
2	ME → SIM	FETCH	
3	SIM → 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 → SS	No PDP context activation request is sent to the SS	
7	ME → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.7.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.7.1	
4	ME → SS	PDP context activation request	
5	SS → 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 → SIM	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: SIM  
 Destination device: ME  
 Alpha Identifier "Open ID"  
 Bearer  
 Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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)

## SIM/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	02
	04	05	05	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: SIM

## Result

General Result: User did not accept the proactive command

## Bearer description

Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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	02	04	05	05	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: SIM

##### 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: 05  
   Peak throughput class: 05  
   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	05	05	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 (OPEN CHANNEL, immediate link establishment, GPRS, ME busy on call)

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call	
2	ME → SS	SETUP CALL	
3	SS → ME	CONNECTED	
4	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.8.1	
5	ME → SIM	FETCH	
6	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.8.1	
7a	ME → SS	No PDP context activation request sent to the SS	
7b	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.8.1A or TERMINAL RESPONSE : OPEN CHANNEL 2.8.1B	[ME busy on call]

## PROACTIVE COMMAND: OPEN CHANNEL 2.8.1

Logically:

Command details

Command number: 1  
 Command type: OPEN CHANNEL  
 Command qualifier: immediate link establishment

Device identities

Source device: SIM  
 Destination device: ME

Bearer

Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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)

SIM/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	02	04	05	05	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 2.8.1A

Logically:

## Command details

Command number: 1  
 Command type: OPEN CHANNEL  
 Command qualifier: immediate link establishment

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: ME currently unable to process command  
 Additional info: ME busy on call

## Bearer

Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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	02	20
	02	35	07	02	02	04	05	05	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 2.8.1B

## Logically:

## Command details

Command number: 1  
 Command type: OPEN CHANNEL  
 Command qualifier: immediate link establishment

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: ME currently unable to process command  
 Additional info: ME busy on call

## Bearer

Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 00  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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	02	20
	02	35	07	02	00	04	05	05	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.

#### 27.22.4.27.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.8.

### 27.22.4.28 CLOSE CHANNEL

#### 27.22.4.28.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.28.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 11.14 [15].

#### 27.22.4.28.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or
- TERMINAL RESPONSE (Bearer Independent Protocol Error);

to the SIM after the ME receives the CLOSE CHANNEL proactive command. The TERMINAL RESPONSE sent back to the SIM is function of the ME and the network capabilities against asked parameters by the SIM.

#### 27.22.4.28.4 Method of Test

##### 27.22.4.28.4.1 Initial conditions

The ME is connected to the SIM 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.2/6.

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:	02
Delay Class:	04
Reliability Class:	05

Peak throughput class: 05  
 Mean throughput class: 31  
 Packet data protocol: 02 (IP)

#### GPRS Parameters

Network access name: TestGp.rs  
 User login: UserLog  
 User password: UserPwd

#### SIM/ME interface transport level

Transport format: UDP  
 Port number: 44444  
 Data destination address 01.01.01.01

#### 27.22.4.28.4.2 Procedure

##### Expected sequence 1.1 (CLOSE CHANNEL, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	SIM → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1	
11	ME → SS	PDP context deactivation request	
12	SS → ME	PDP context deactivation accept	
13	ME → SIM	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: SIM  
 Destination device: ME

###### Bearer

Bearer type: GPRS  
 Bearer parameter:

Precedence Class: 02  
 Delay Class: 04  
 Reliability Class: 05  
 Peak throughput class: 05  
 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)  
 SIM/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	02	04	05	05	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: SIM  
 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: 02  
 Delay Class: 04  
 Reliability Class: 05  
 Peak throughput class: 05  
 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	02	04	05	05	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: SIM

## 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: 05  
 Peak throughput class: 05  
 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	05	05	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: SIM  
 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: SIM

## 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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	SIM → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.2.1	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1	
11	ME → SIM	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: SIM  
 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: SIM

##### 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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	SIM → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1	
11	ME → SS	PDP context deactivation request	
12	SS → ME	PDP context deactivation accept	
13	ME → SIM	TERMINAL RESPONSE CLOSE CHANNEL 1.1.1	[Command performed successfully]
14	SIM → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.3.1	
15	ME → SIM	FETCH	
16	SIM → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.3.1	
17	ME → SIM	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: SIM  
 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: SIM  
 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: SIM  
 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.

### 27.22.4.29 RECEIVE DATA

#### 27.22.4.29.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.29.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 11.14 [15].

#### 27.22.4.29.3 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 SIM after the ME receives the RECEIVE DATA proactive command. The TERMINAL RESPONSE sent back to the SIM is function of the ME and the network capabilities against asked parameters by the SIM.

#### 27.22.4.29.4 Method of test

##### 27.22.4.29.4.1 Initial conditions

The ME is connected to the SIM 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.2/6.

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:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	31
Packet data protocol:	02 (IP)

##### GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

##### SIM/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

#### 27.22.4.29.4.2 Procedure

##### Expected sequence 1.1 (RECEIVE DATA, already opened channel)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → SS	PDP context activation request	
10	SS → ME	PDP context activation accept	
11	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1 A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → SIM	FETCH	
14	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	ME → SS	Transfer of 8 Bytes of data to the SS through channel 1	[To retrieve ME's port number]
16	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	SS → 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 → SIM	ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1	(1000 Bytes of data in the ME buffer)
19	SIM → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.1	
20	ME → SIM	FETCH	
21	SIM → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.1	[200 Bytes]
22	ME → SIM	TERMINAL RESPONSE: RECEIVE DATA 1.1.1	
23	SIM → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.2	
24	ME → SIM	FETCH	
25	SIM → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.2	[200 Bytes]
26	ME → SIM	TERMINAL RESPONSE: RECEIVE DATA 1.1.2	
27	SIM → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.3	
28	ME → SIM	FETCH	
29	SIM → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.3	[200 Bytes]
30	ME → SIM	TERMINAL RESPONSE: RECEIVE DATA 1.1.3	
31	SIM → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.4	
32	ME → SIM	FETCH	
33	SIM → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.4	[200 Bytes]
34	ME → SIM	TERMINAL RESPONSE: RECEIVE DATA 1.1.4	
35	SIM → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.5	
36	ME → SIM	FETCH	
37	SIM → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.5	[200 Bytes]
38	ME → SIM	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: SIM  
 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: SIM

## 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: SIM  
 Destination device: ME

## Bearer

Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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)

## SIM/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	02	04	05	05	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: SIM

#### 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: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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	02	04	05	05	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: SIM

#### 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: 05

Peak throughput class: 05  
 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	05	05	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: SIM  
 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: SIM

## 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: SIM

## 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: SIM  
 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: SIM  
 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: SIM  
 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: SIM  
 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: SIM  
 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: SIM

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: SIM

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	..

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: SIM

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	..

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: SIM

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: RFU

Device identities

Source device: ME  
 Destination device: SIM

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.

#### 27.22.4.30 SEND DATA

##### 27.22.4.30.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.30.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 11.14 [15].

##### 27.22.4.30.3 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 SIM session terminated by the user);

to the SIM after the ME receives the SEND DATA proactive command. The TERMINAL RESPONSE sent back to the SIM is the result of the ME and the network capabilities against requested parameters by the SIM.

#### 27.22.4.30.4 Method of test

##### 27.22.4.30.4.1 Initial conditions

The ME is connected to the SIM 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.2/6.

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:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	31
Packet data protocol:	02 (IP)

##### GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

##### SIM/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

#### 27.22.4.30.4.2 Procedure

##### Expected sequence 1.1 (SEND DATA, immediate mode)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
11	ME → SS	Transfer of 8 Bytes of data to the SS through channel 1	
12	ME → SIM	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: SIM  
 Destination device: ME

## Bearer

Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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)

## SIM/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	02	04	05	05	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: SIM

#### 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: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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	02	04	05	05	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: SIM

#### 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: 05

Peak throughput class: 05  
 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	05	05	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: SIM  
 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: SIM

## 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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.1	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.2.1	Send 500 Bytes of data (200 + 200 + 100)
11	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.2.1	[Command performed successfully]
12	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.2	
13	ME → SIM	FETCH	
14	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.2.2	[200 Bytes]
15	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.2.2	[Command performed successfully]
16	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.3	
17	ME → SIM	FETCH	
18	SIM → ME	PROACTIVE COMMAND: SEND DATA (Immediate mode) 1.2.3	[100 Bytes]
19	ME → SS	Transfer of 500 Bytes of data to the SS through channel 1	
20	ME → SIM	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: SIM  
 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: SIM  
 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: SIM  
   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: SIM  
 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: SIM  
   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: SIM

## 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packet of 200 Bytes
11	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
12	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
13	ME → SIM	FETCH	
14	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
15	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
16	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
17	ME → SIM	FETCH	
18	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
19	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
20	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
21	ME → SIM	FETCH	
22	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
23	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
24	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	
25	ME → SIM	FETCH	
26	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
27	ME → SS	Transfer of 1000 Bytes of data to the SS through channel 1	
28	ME → SIM	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: SIM  
 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: SIM

## 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: SIM  
 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: SIM

## 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: SIM  
 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: SIM

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: SIM  
 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: SIM

## 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: SIM  
 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: SIM

## 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packets of 200 Bytes
11	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
12	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
13	ME → SIM	FETCH	
14	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
15	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
16	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
17	ME → SIM	FETCH	
18	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
19	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
20	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
21	ME → SIM	FETCH	
22	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
23	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
24	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	...
25	ME → SIM	FETCH	
26	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	
27	ME → SS	Transfer of 1000 Bytes of data to the SS through channel 1	
28	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]
29	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
30	ME → SIM	FETCH	
31	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packets of 200 Bytes
32	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
33	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
34	ME → SIM	FETCH	
35	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]

36	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
37	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
38	ME → SIM	FETCH	
39	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
40	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
41	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
42	ME → SIM	FETCH	
43	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
44	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
45	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	...
46	ME → SIM	FETCH	
47	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	
48	ME → SS	Transfer of 1000 Bytes of data to the SS through channel 1	
49	ME → SIM	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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.5.1	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.5.1	
11	ME → SIM	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: SIM  
 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: SIM

#### 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

#### 27.22.4.30.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.5.

### 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 11.14 [15].

#### 27.22.4.31.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (Command Performed Successfully) to the SIM after the ME receives the GET STATUS proactive command. The TERMINAL RESPONSE sent back to the SIM is function of the ME and the network capabilities against asked parameters by the SIM.

#### 27.22.4.31.4 Method of test

##### 27.22.4.31.4.1 Initial conditions

The ME is connected to the SIM 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.2/6.

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: 02  
 Delay Class: 04  
 Reliability Class: 05  
 Peak throughput class: 05  
 Mean throughput class: 31  
 Packet data protocol: 02 (IP)

#### GPRS Parameters

Network access name: TestGp.rs  
 User login: UserLog  
 User password: UserPwd

#### SIM/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	SIM → ME	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET STATUS 1.1.1	
4	ME → SIM	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: SIM  
 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:	SIM

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:	SIM

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	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → SS	PDP context activation request	
5	SS → ME	PDP context activation accept	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 1.2.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: GET STATUS 1.2.1	
10	ME → SIM	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: SIM  
 Destination device: ME

##### Bearer

Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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)
SIM/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	02	04	05	05	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:	SIM
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:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
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	02	04	05	05	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: SIM

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: 05
- Peak throughput class: 05
- 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	05	05	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: SIM

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: SIM

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
Note 1												

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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → SS	PDP context activation request	
9	SS → ME	PDP context activation accept	
10	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
11	SS → ME	DROP LINK	
12	ME → SIM	ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1	[Link dropped]
13	SIM → ME	PROACTIVE COMMAND PENDING: GET STATUS 1.3.1	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: GET STATUS 1.3.1	
16	ME → SIM	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:	SIM

## 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: SIM  
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: SIM

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: SIM

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: SIM  
 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 SIM

### 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 SIM: SMS-PP Data Download facility as defined in the following technical specifications:

- TS 11.14 [15] clause 4.3, clause 5, clause 7.1, clause 12.1, clause 12.7 and clause 12.13.

#### 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 SIM.

To verify that the ME returns the RP-ACK message back to the system Simulator, if the SIM responds with '90 00' or '91 XX'.

To verify that the ME returns the response data from the SIM back to the system Simulator in the TP-User-Data element of the RP-ACK message, if the SIM responds with '9F XX'.

#### 27.22.5.1.4 Method of Test

##### 27.22.5.1.4.1 Initial conditions

The ME is connected to the system Simulator and the SIM 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.

## 27.22.5.1.4.2 Procedure

**Expected Sequence 1.1 Void****Expected Sequence 1.2 (SMS-PP Data Download, General Data Coding, GET RESPONSE, Acknowledgement)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SS → 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 → SIM	ENVELOPE: SMS-PP DOWNLOAD 1.2.2	
4	SIM → ME	RESPONSE DATA AVAILABLE	[SW1 / SW2 of '9F 0B']
5	ME → SIM	GET RESPONSE	
6	SIM → ME	SMS-PP Data Download SIM Acknowledgement 1.2.4	
7	ME → SS	SMS-PP Data Download SIM 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	SS → 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 → SIM	ENVELOPE: SMS-PP DOWNLOAD 1.3.2	[SW1 / SW2 of '91 0B']
4	SIM → ME	PROACTIVE COMMAND PENDING: MORE TIME 1.3.4	
5	ME → SS	RP-ACK	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: MORE TIME 1.3.4	
8	ME → SIM	TERMINAL RESPONSE: MORE TIME 1.3.5	
9	SIM → ME	PROACTIVE SIM 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: SIM  
 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: SIM

## 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 (SMS-PP Data Download, General Data Coding)

Step	Direction	MESSAGE / Action	Comments
1	SS → ME	SMS-PP Data Download Message 1.4.1	
2	ME	The ME shall not display the message or alert the user of a short message waiting	
3	ME → SIM	ENVELOPE: SMS-PP DOWNLOAD 1.4.2	
4	SIM → ME	SW1 / SW2 of '90 00'	
5	ME → SS	RP-ACK	

SMS-PP (Data Download) Message 1.2.1 / 1.3.1 / 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 SME
TP-OA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"1234"
TP-PID	SIM Data download
TP-DCS	
Coding Group	General Data Coding
Compression	Text is uncompressed
Message Class	Class 2 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 / 1.4.2,

Logically:

SMS-PP Download	
Device identities	
Source device:	Network

Destination device:	SIM
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	SIM Data download
TP-DCS	
Coding Group	General Data Coding
Compression	Text is uncompressed
Message Class	Class 2 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	SS → 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 → SIM	ENVELOPE: SMS-PP DOWNLOAD 1.6.2	
4	SIM → ME	SW1 / SW2 of '90 00'	
5	ME → SS	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	SIM Data download
TP-DCS	

Coding Group	Data Coding / Message Class
Message Coding	8 bit data
Message Class	Class 2 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:	SIM
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	SIM Data download
TP-DCS	
Coding Group	Data Coding / Message Class
Message Coding	8 bit data
Message Class	Class 2 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	

#### SMS-PP Data Download SIM Acknowledgement 1.2.4

Coding:

Coding	50	68	69	6C	20	48	6F	6F	6B	65	72
--------	----	----	----	----	----	----	----	----	----	----	----

#### 27.22.5.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.2 to 1.6.

## 27.22.5.2 SMS-CB 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 SIM: SMS-CB Data Download facility as defined in:

- TS 11.14 [15] clause 4.3, clause 5, clause 7.2, clause 12.5 and clause 12.7.

### 27.22.5.2.3 Test purpose

To verify that the ME transparently passes the "data download via SMS Cell Broadcast" messages to the SIM, which contain a message identifier found in EF<sub>CBMID</sub>.

### 27.22.5.2.4 Method of Test

#### 27.22.5.2.4.1 Initial conditions

The ME is connected to the system Simulator and the SIM Simulator.

The elementary files are coded as Toolkit default with the following exception:

EF LP shall contain an entry indicating "English".

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 (SMS-CB (Data Download), ENVELOPE(SMS-CB DOWNLOAD), ME does not display message)**

Step	Direction	MESSAGE / Action	Comments
1	SS → ME	SMS-CB (DATA DOWNLOAD) 1.1	Message identifier '10 01'
2	ME → SIM	ENVELOPE (SMS-CB DOWNLOAD) 1.1	
3	SIM → ME	SW1, SW2 '90 00'	

SMS-CB (Data Download) 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: SMS-CB DOWNLOAD 1.1

Logically:

Cell Broadcast Download

Device identities

Source device: Network  
Destination device: SIM

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 (SMS-CB(DATA DOWNLOAD), ENVELOPE(SMS-CB DATA DOWNLOAD), FETCH, MORE TIME, ME does not display message)**

Step	Direction	MESSAGE / Action	Comments
1	SS → ME	SMS-CB (DATA DOWNLOAD) 1.1	Message identifier '10 01'
2	ME → SIM	ENVELOPE (SMS-CB DOWNLOAD) 1.1	
3	SIM → ME	PROACTIVE COMMAND PENDING: MORE TIME 1.1	SW1/SW2 '91 0B'
4	ME → SIM	FETCH 1.1	
5	SIM → ME	PROACTIVE COMMAND:MORE TIME 1.1	
6	ME → SIM	TERMINAL RESPONSE: MORE TIME 1.1	
7	SIM → ME	SW1/SW2 '90 00'	SIM session ended

PROACTIVE COMMAND: MORE TIME 1.1

Logically:

## Command details

Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: ME

Coding:

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

TERMINAL RESPONSE: MORE TIME 1.1

Logically:

## Command details

Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

## Expected Sequence 1.3 (SMS-CB (DATA DOWNLOAD), ME displays message)

Step	Direction	MESSAGE / Action	Comments
1	SS → ME	SMS-CB (DATA DOWNLOAD) 1.2	Message identifier '03 E7'
2a	ME → USER	ME may display the message	
2b	ME → SIM	ME shall not download the CB message to the SIM using ENVELOPE (SMS-CB 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]

SMS-CB (Data Download) 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									

### 27.22.5.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

## 27.22.6 CALL CONTROL BY SIM

### 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 11.14 [15] clause 9.1.1.

#### 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 SIM command, the ME shall first pass the call set-up details (dialled digits and associated parameters) to the SIM, using the ENVELOPE (CALL CONTROL).

To verify that if the SIM responds with '90 00', the ME shall set up the call with the dialled digits and other parameters as sent to the SIM.

To verify that if the SIM responds with '9F XX', the ME shall use the GET RESPONSE command to get the response data. The response data from the SIM shall indicate to the ME whether to set up the call as proposed, not set up the call, set up a call using the data supplied by the SIM.

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 SIM using TERMINAL RESPONSE "interaction with call control by SIM or MO short message control by SIM, action not allowed".

To verify that it is possible for the SIM 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 SIM Simulator and System Simulator and has performed the location update procedure.

The GSM 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 SIM Application Toolkit default with the following exception:

The call control service is allocated and activated in the SIM Service Table.

#### 27.22.6.1.4.2 Procedure

#### Expected Sequence 1.1 (CALL CONTROL BY SIM , set up call attempt by user, the SIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.1.1A Or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	90 00	
4	ME → SS	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:	SIM

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)

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
	F1	10	00	01	00	01	Note 4					

#### ENVELOPE CALL CONTROL 1.1.1B

Logically:

Device identities

Source device: ME  
Destination device: SIM

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.

**Expected Sequence 1.2 (CALL CONTROL BY SIM , set up call attempt by user, allowed without modification)**

<b>Step</b>	<b>Direction</b>	<b>Message / Action</b>	<b>Comments</b>
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.2.1 A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
6	ME → SS	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: SIM

## 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)

## 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
	F1	10	00	01	00	01	Note 4					

**ENVELOPE CALL CONTROL 1.2.1B**

Logically:

## Device identities

Source device: ME  
 Destination device: SIM

## 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.

**CALL CONTROL RESULT 1.2.1**

Logically:

Call control result : '00' = Allowed, no modification

Coding:

BER-TLV:	00	00
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**Expected Sequence 1.3A (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, allowed without modification)**

Step	Direction	Message / Action	Comments
1	SIM → 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→SIM	FETCH	
3	SIM → 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 → SIM	ENVELOPE CALL CONTROL 1.3.1A or ENVELOPE CALL CONTROL 1.3.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
7	SIM → ME	9F 02	
8	ME → SIM	GET RESPONSE	
9	SIM → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
10	ME → SS	The ME sets up the call without modification	[Set up call to "+012340123456"]
11	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]

**Expected Sequence 1.3 B (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, allowed without modification)**

Step	Direction	Message / Action	Comments
1	SIM → 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→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[Set up call to "+012340123456"]
4	ME → SIM	ENVELOPE CALL CONTROL 1.3.1A or ENVELOPE CALL CONTROL 1.3.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
5	SIM → ME	9F 02	
6	ME → SIM	GET RESPONSE	
7	SIM → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
8	ME → USER	ME displays "+012340123456" during user confirmation phase.	
9	USER → ME	The user confirms the call set up	[user confirmation]
10	ME → SS	The ME sets up the call without modification	[Set up call to "+012340123456"]
11	ME → SIM	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: SIM  
   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: SIM  
 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)

#### 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	F1	10
	00	01	00	01	Note 4						

### ENVELOPE CALL CONTROL 1.3.1B

Logically:

Device identities  
   Source device: ME  
   Destination device: SIM  
 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.

## 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:	SIM

## Result

General Result: Command performed successfully

## Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	00
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**Expected Sequence 1.4 (CALL CONTROL BY SIM , set up call attempt by user, not allowed)**

<b>Step</b>	<b>Direction</b>	<b>Message / Action</b>	<b>Comments</b>
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.4.1 A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GSM parameters]  [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
6	ME → SS	The ME does not set up the call	

**ENVELOPE CALL CONTROL 1.4.1A**

Logically:

## Device identities

Source device: ME  
Destination device: SIM

## 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)

## 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
	F1	10	00	01	00	01	Note 4					

**ENVELOPE CALL CONTROL 1.4.1B**

Logically:

## Device identities

Source device: ME  
Destination device: SIM

## 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.

## 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 SIM , set up call attempt resulting from a set up call proactive command, not allowed)**

Step	Direction	Message / Action	Comments
1	SIM → 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→SIM	FETCH	
3	SIM → 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 → SIM	ENVELOPE CALL CONTROL 1.5.1A or ENVELOPE CALL CONTROL 1.5.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
7	SIM → ME	9F 02	
8	ME → SIM	GET RESPONSE	
9	SIM → ME	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"]
10	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.5.1	[Permanent Problem - Interaction with Call Control by SIM]
11	ME → SS	The ME does not set up the call	

**Expected Sequence 1.5 B (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, not allowed)**

Step	Direction	Message / Action	Comments
1	SIM → 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 → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1	[Set up call to "+012340123456"]
4	ME → SIM	ENVELOPE CALL CONTROL 1.5.1A or ENVELOPE CALL CONTROL 1.5.1B	[Option A shall apply for GSM parameters]  [Option B shall apply for PCS1900 parameters]
5	SIM → ME	9F 02	
6	ME → SIM	GET RESPONSE	
7	SIM → ME	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"] [No user confirmation phase because Call Control has disallowed the request]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.5.1	[Permanent Problem - Interaction with Call Control by SIM]
9	ME → SS	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: SIM  
 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: SIM  
 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)

## 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	F1	10
	00	01	00	01	Note 4						

## ENVELOPE CALL CONTROL 1.5.1B

Logically:

## Device identities

Source device:	ME
Destination device:	SIM

## 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

## 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: SIM

Result

General Result: Interaction with call control by SIM or MO short message control by SIM, 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 SIM , 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 → SIM	ENVELOPE CALL CONTROL 1.6.1 A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GSM parameters]  [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 08	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications", ]
6	ME → SS	The ME sets up the call to "+010203"	

**ENVELOPE CALL CONTROL 1.6.1A**

Logically:

Device identities

Source device: ME  
 Destination device: SIM

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)

## 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
	F1	10	00	01	00	01	Note 4					

## ENVELOPE CALL CONTROL 1.6.1B

Logically:

## Device identities

Source device: ME  
Destination device: SIM

## 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.

## 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
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**Expected Sequence 1.7A (CALL CONTROL BY SIM, set up call attempt resulting from a set up call proactive command, allowed with modifications)**

Step	Direction	Message / Action	Comments
1	SIM → 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 → SIM	FETCH	
3	SIM → 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 → SIM	ENVELOPE CALL CONTROL 1.7.1A or ENVELOPE CALL CONTROL 1.7.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
7	SIM → ME	9F 0B	
8	ME → SIM	GET RESPONSE	
9	SIM → ME	CALL CONTROL RESULT 1.7.1	[Call control result: "Allowed with modifications"]
10	ME → SS	The ME sets up the call to "+011111111111"	
11	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.7.1	[command performed successfully]

**Expected Sequence 1.7 B (CALL CONTROL BY SIM, set up call attempt resulting from a set up call proactive command, allowed with modifications)**

Step	Direction	Message / Action	Comments
1	SIM → 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 → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1	[Set up call to "+012340123456"]
4	ME → SIM	ENVELOPE CALL CONTROL 1.7.1A or ENVELOPE CALL CONTROL 1.7.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
5	SIM → ME	9F 0B	
6	ME → SIM	GET RESPONSE	
7	SIM → ME	CALL CONTROL RESULT 1.7.1	[Call control result: "Allowed with modifications"]
8	ME → USER	ME displays "+012340123456" during user confirmation phase.	
9	USER → ME	The user confirms the call set up	[user confirmation]
10	ME → SS	The ME sets up the call to "+011111111111"	[call is set up to modified address]
11	ME → SIM	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: SIM  
 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: SIM

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)

## 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	F1	10
	00	01	00	01	Note 4						

## ENVELOPE CALL CONTROL 1.7.1B

Logically:

## Device identities

Source device: ME  
 Destination device: SIM

## 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.

### 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
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### 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:	SIM

#### 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 SIM , 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 → SIM	ENVELOPE CALL CONTROL 1.8.1A  or  ENVELOPE CALL CONTROL 1.8.1B	[Option A shall apply for GSM parameters]  [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.8.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up an emergency call;	

#### ENVELOPE CALL CONTROL 1.8.1A

Logically:

Device identities

Source device: ME  
Destination device: SIM

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)

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
	F1	10	00	01	00	01	Note 4					

#### ENVELOPE CALL CONTROL 1.8.1B

Logically:

Device identities

Source device: ME  
Destination device: SIM

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.

## 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
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**Expected Sequence 1.9 (CALL CONTROL BY SIM , 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 → SIM	ENVELOPE CALL CONTROL 1.9.1A or ENVELOPE CALL CONTROL 1.9.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.9.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up call with the dialled digits "1020". The ME does not set up an emergency call, but sets up a normal call	

## ENVELOPE CALL CONTROL 1.9.1A

Logically:

Device identities

Source device: ME  
Destination device: SIM

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)

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
	F1	10	00	01	00	01	Note 4					

## ENVELOPE CALL CONTROL 1.9.1B

Logically:

Device identities

Source device: ME  
Destination device: SIM

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.

### 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
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### Expected Sequence 1.10 (CALL CONTROL BY SIM , 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 → SIM	The ME does not send any ENVELOPE CALL CONTROL	
3	ME → SS	The ME sets up an emergency call	

### Expected Sequence 1.11 (CALL CONTROL BY SIM , set up call through call register, the SIM 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 → SIM	ENVELOPE CALL CONTROL 1.1.1A or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	90 00	[Option B shall apply for PCS1900 parameters]
4	ME → SS	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 → SIM	ENVELOPE CALL CONTROL 1.1.1A or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for GSM parameters]
8	SIM → ME	90 00	[Option B shall apply for PCS1900 parameters]
9	ME → SS	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 SIM , 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 → SIM	ENVELOPE CALL CONTROL 1.2.1A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 02	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
6	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
7	User → ME	End the call then call the last dialled number	
8	ME → SIM	ENVELOPE CALL CONTROL 1.2.1A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GSM parameters]
9	SIM → ME	9F 02	[Option B shall apply for PCS1900 parameters]
10	ME → SIM	GET RESPONSE	[Call control result: "Allowed, no modification"]
11	SIM → ME	CALL CONTROL RESULT 1.2.1	
12	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]

**Expected Sequence 1.13 (CALL CONTROL BY SIM , 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.

<b>Step</b>	<b>Direction</b>	<b>Message / Action</b>	<b>Comments</b>
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.4.1A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 02	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
6	ME → SS	The ME does not set up the call	
7	User → ME	The user calls the last dialled number	
8	ME → SIM	ENVELOPE CALL CONTROL 1.4.1A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GSM parameters]
9	SIM → ME	9F 02	[Option B shall apply for PCS1900 parameters]
10	ME → SIM	GET RESPONSE	
11	SIM → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
12	ME → SS	The ME does not set up the call	

### Expected Sequence 1.14 (CALL CONTROL BY SIM , 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 → SIM	ENVELOPE CALL CONTROL 1.6.1A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 08	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call to "+010203"	
7	User → ME	End the call and then set up a call to "+01234567890123456789"	
8	ME → SIM	ENVELOPE CALL CONTROL 1.6.1A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GSM parameters]
9	SIM → ME	9F 08	[Option B shall apply for PCS1900 parameters]
10	ME → SIM	GET RESPONSE	
11	SIM → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
12	ME → SS	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 11.14 [15] clause 9.1.2.

##### 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 SIM, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the SIM responds with '90 00', the ME shall send the supplementary service operation with the information as sent to the SIM.

To verify that, if the SIM responds with '9F XX', the ME shall use the GET RESPONSE command to get the response data. The response data from the SIM shall indicate to the ME whether to send the supplementary service operation as proposed, not send the SS operation, or instead send the SS operation using the data supplied by the SIM.

#### 27.22.6.2.4 Method of tests

##### 27.22.6.2.4.1 Initial conditions

The ME is connected to the SIM Simulator and the System Simulator.

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 exception:

The call control service is allocated and activated in the SIM Service Table.

The GSM 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 SIM , send SS, the SIM 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 → SIM	ENVELOPE CALL CONTROL 2.1.1A or ENVELOPE CALL CONTROL 2.1.1B 90 00	[Option A shall apply for GSM parameters]
3	SIM → ME	REGISTER 2.1A	[Option B shall apply for PCS1900 parameters]
4	ME → SS	REGISTER 2.1B	[The ME sends the supplementary service operation with the information as sent to the SIM]
5	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	

ENVELOPE CALL CONTROL 2.1.1A

Logically:

Device identities

Source device: ME  
 Destination device: SIM  
 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)

Coding:

BER-TLV:	D4	14	82	02	82	81	89	05	FF	2A	A1	1A
	B0	13	07	00	F1	10	00	01	00	01		

### ENVELOPE CALL CONTROL 2.1.1B

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 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				
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### 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 SIM , 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 → SIM	ENVELOPE CALL CONTROL 2.2.1A or ENVELOPE CALL CONTROL 2.2.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 02	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 2.2.1	[Call control result: "Allowed without modifications"]
6	ME → SS	REGISTER 2.1A or REGISTER 2.1B	The ME sends the supplementary service operation with the information as sent to the SIM
7	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	

## ENVELOPE CALL CONTROL 2.2.1A

Logically:

Device identities

Source device: ME  
 Destination device: SIM

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)

Coding:

BER-TLV:	D4	14	82	02	82	81	89	05	FF	2A	A1	1A
	B0	13	07	00	F1	10	00	01	00	01		

## ENVELOPE CALL CONTROL 2.2.1B

Logically:

## Device identities

Source device:	ME
Destination device:	SIM

## 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
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**Expected Sequence 2.3 (CALL CONTROL BY SIM , 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 → SIM	ENVELOPE CALL CONTROL 2.3.1A or ENVELOPE CALL CONTROL 2.3.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 02	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 2.3.1	[Call control result: "Not Allowed"]
6	ME → SS	The ME does not send the supplementary service operation	

## ENVELOPE CALL CONTROL 2.3.1A

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 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)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	F1	10	00	01	00	01				

### ENVELOPE CALL CONTROL 2.3.1B

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 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
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**Expected Sequence 2.4 (CALL CONTROL BY SIM , send SS, allowed with modifications)**

<b>Step</b>	<b>Direction</b>	<b>Message / Action</b>	<b>Comments</b>
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 → SIM	ENVELOPE CALL CONTROL 2.4.1A or ENVELOPE CALL CONTROL 2.4.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 07	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 2.4.1	[Call control result: "Allowed with modifications"]
6	ME → SS	REGISTER 2.4A or REGISTER 2.4B	[The ME sends the supplementary service operation with the information as sent by the SIM]
7	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.4	

**ENVELOPE CALL CONTROL 2.4.1A**

Logically:

## Device identities

Source device: ME  
 Destination device: SIM

## 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)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	F1	10	00	01	00	01				

**ENVELOPE CALL CONTROL 2.4.1B**

Logically:

## Device identities

Source device: ME  
 Destination device: SIM

## 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:

Coding	02	06	89	04	FF	BA	12	FB
--------	----	----	----	----	----	----	----	----

#### REGISTER 2.4A

Logically (only SS argument):

INTERROGATE SS ARGUMENT	
SS-Code	
- Call Forwarding Unconditional	

Coding:

Coding	30	03	04	01	21
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#### REGISTER 2.4B

Logically (only SS argument):

INTERROGATE SS ARGUMENT	
SS-Code	
- Call Forwarding Unconditional	
- longFTN Supported	

Coding:

Coding	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:

Coding	80	01	06					
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### 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 11.14 [15] clause 9.1.4.

#### 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 SIM, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the SIM responds with "allowed, no modification", the ME shall set up the call as proposed.

To verify that, if the SIM responds with "not allowed", the ME shall not set up the call.

To verify that, if the SIM responds with "allowed with modifications", the ME shall set up the call in accordance with the response from the SIM. 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 SIM Simulator and the System Simulator.

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 allocated and activated in the SIM Service Table.

Fixed Dialling Number service is enabled.

The GSM 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 SIM , set up a call not in EF<sub>FDN</sub>)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "4321"	
2	ME → SIM	The ME does not send the ENVELOPE (CALL CONTROL) command to the SIM.	
3	ME → SS	The ME does not set up the call.	

#### Expected Sequence 3.2 (CALL CONTROL BY SIM , set up a call in EF<sub>FDN</sub>, the SIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "123"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.2.1A or ENVELOPE CALL CONTROL 3.2.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	90 00	[Option B shall apply for PCS1900 parameters]
4	ME → SS	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: SIM

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)

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	F1	10	00	01	00	01	Note 4	

#### ENVELOPE CALL CONTROL 3.2.1B

Logically:

Device identities

Source device: ME

Destination device: SIM

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.

### Expected Sequence 3.3 (CALL CONTROL BY SIM , set up a call in EF<sub>FDN</sub>, Allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.3.1A or ENVELOPE CALL CONTROL 3.3.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 02	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 3.3.1	[Call control result: "Allowed without modifications"]
6	ME → SS	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: SIM

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)

#### 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	F1	10	00	01	00	01	Note 4	

#### ENVELOPE CALL CONTROL 3.3.1B

Logically:

##### Device identities

Source device:            ME  
Destination device:      SIM

##### 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

#### 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 SIM , set up a call in EF<sub>FDN</sub>, Not Allowed)**

<b>Step</b>	<b>Direction</b>	<b>Message / Action</b>	<b>Comments</b>
1	User → ME	The user sets up a call to "9876"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.4.1A or ENVELOPE CALL CONTROL 3.4.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 02	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 3.4.1	
6	ME → SS	The ME does not set up the call	[Call control result: "Not Allowed"]

**ENVELOPE CALL CONTROL 3.4.1A**

Logically:

## Device identities

Source device: ME  
 Destination device: SIM

## 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)

## 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	F1	10	00	01	00	01	Note 4	

**ENVELOPE CALL CONTROL 3.4.1B**

Logically:

## Device identities

Source device: ME  
 Destination device: SIM

## 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	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.

### CALL CONTROL RESULT 3.4.1

Logically:

Call control result      Not Allowed

Coding:

BER-TLV:	01	00
----------	----	----

### Expected Sequence 3.5 (CALL CONTROL BY SIM , set up a call in EF<sub>FDN</sub>, Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.5.1A or ENVELOPE CALL CONTROL 3.5.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 07	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 3.5.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call with data sent by the SIM	[Set up call to "3333"]

### ENVELOPE CALL CONTROL 3.5.1A

Logically:

Device identities

Source device:      ME  
Destination device:      SIM

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)

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	F1	10	00	01	00	01	Note 4	

### ENVELOPE CALL CONTROL 3.5.1B

Logically:

Device identities

Source device: ME  
Destination device: SIM

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.

### 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

See clause 3.2.2.

### 27.22.6.4.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- TS 11.14 [15] clause 9.1.5.

### 27.22.6.4.3 Test purpose

To verify that, if Barred Dialling Number service is enabled, the ME checks the number entered through the MMI against EF<sub>BDN</sub>.

To verify that, if the SIM responds with "not allowed", the ME does not set up the call.

To verify that, if the SIM responds with "allowed, no modification", the ME shall set up the call (or the supplementary service operation) as proposed.

To verify that, if the SIM responds with "allowed with modifications", the ME sets up the call in accordance with the response from the SIM. 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.

### 27.22.6.4.4 Method of tests

#### 27.22.6.4.4.1 Initial conditions

The ME is connected to the SIM Simulator and the Systems Simulator.

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 allocated and activated in the SIM Service Table.

Barred Dialling Number service is enabled.

Prior to the execution of expected sequence 4.4 the FDN service shall be enabled.

The GSM 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 SIM , set up a call in EF<sub>BDN</sub>)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "321"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.1.1A or ENVELOPE CALL CONTROL 4.1.1B 9F 02	[Option A shall apply for GSM parameters]
3	SIM → ME	GET RESPONSE	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	CALL CONTROL RESULT 4.1.1	
5	SIM → ME	CALL CONTROL RESULT 4.1.1	
6	ME → SS	The ME does not set up the call	[Call control result: "Not Allowed"]

## ENVELOPE CALL CONTROL 4.1.1A

Logically:

## Device identities

Source device: ME  
 Destination device: SIM

## Address

TON Unknown  
 NPI "ISDN / telephone numbering plan"  
 Dialling number string "321"

## 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)

## 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	23	F1	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

## ENVELOPE CALL CONTROL 4.1.1B

Logically:

## Device identities

Source device: ME  
 Destination device: SIM

## Address

TON Unknown  
 NPI "ISDN / telephone numbering plan"  
 Dialling number string "321"

## 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	23	F1	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.

## CALL CONTROL RESULT 4.1.1

Logically:

Call control result      Not Allowed

Coding:

BER-TLV:	01	00
----------	----	----

**Expected Sequence 4.2 (CALL CONTROL BY SIM , set up a call not in EF<sub>BDN</sub>, Allowed without modifications)**

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "1234"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.2.1A or ENVELOPE CALL CONTROL 4.2.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 02	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 4.2.1	[Call control result: "Allowed without modifications"]
6	ME → SS	The ME sets up the call without modification	[Set up call to "1234"]

## ENVELOPE CALL CONTROL 4.2.1A

Logically:

## Device identities

Source device:      ME  
Destination device:      SIM

## Address

TON                  Unknown  
NPI                  "ISDN / telephone numbering plan"  
Dialling number string      "1234"

## 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)

## 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	43	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

#### ENVELOPE CALL CONTROL 4.2.1B

Logically:

Device identities

Source device: ME  
Destination device: SIM

Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "1234"

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	43	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.

#### CALL CONTROL RESULT 4.2.1

Logically:

Call control result Allowed, no modifications

Coding:

BER-TLV:	00	00
----------	----	----

**Expected Sequence 4.3 (CALL CONTROL BY SIM , set up a call not in EF<sub>BDN</sub>, Allowed with modifications)**

<b>Step</b>	<b>Direction</b>	<b>Message / Action</b>	<b>Comments</b>
1	User → ME	The user sets up a call to "1111"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.3.1A or ENVELOPE CALL CONTROL 4.3.1B	[Option A shall apply for GSM parameters]
3	SIM → ME	9F 07	[Option B shall apply for PCS1900 parameters]
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 4.3.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call with data sent by the SIM	[Set up call to "2222"]

**ENVELOPE CALL CONTROL 4.3.1A**

Logically:

## Device identities

Source device: ME  
 Destination device: SIM

## 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.

## 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)

## 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
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

**ENVELOPE CALL CONTROL 4.3.1B**

Logically:

## Device identities

Source device: ME  
 Destination device: SIM

## 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.

## 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	11	11	Note 2
	Note 3	13	07	00	11	10	00	01	00	01	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.

## CALL CONTROL RESULT 4.3.1

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 4.4 (CALL CONTROL BY SIM , FDN and BDN enabled, set up a call in EF<sub>FDN</sub>, Allowed with modifications)**

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "123"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.4.1A Or ENVELOPE CALL CONTROL 4.4.1B 9F 0A	[Option A shall apply for GSM parameters]
3	SIM → ME	GET RESPONSE	[Option B shall apply for PCS1900 parameters]
4	ME → SIM		
5	SIM → ME	CALL CONTROL RESULT 4.4.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call with data sent by the SIM	[Set up call to "987654321"the ME does not re-check this modified number against the FDN list]

## ENVELOPE CALL CONTROL 4.4.1A

Logically:

Device identities	
Source device:	ME
Destination device:	SIM
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)

## 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	F1	10	00	01	00	01	Note 4	

## ENVELOPE CALL CONTROL 4.4.1B

Logically:

## Device identities

Source device:	ME
Destination device:	SIM

## 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.

## CALL CONTROL RESULT 4.4.1

Logically:

Call control result	Allowed with modifications
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Address value	"987654321"

Coding:

BER-TLV:	02	08	86	06	81	89	67	45	23	F1
----------	----	----	----	----	----	----	----	----	----	----

### 27.22.6.4.5 Test requirement

The ME shall operate in the manner defined in expected sequences 4.1 to 4.4.

## 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 11.14 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 11, clause 11.1 and clause 12.25.

##### 27.22.7.1.1.3 Test purpose

To verify that the ME informs the SIM 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 SIM Simulator and the System Simulator.

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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	SS → ME	CALL SET UP without CLI	[MT Call Set Up Without CLI]
6	ME → SIM	ENVELOPE: EVENT DOWNLOAD - MT Call 1.1.1	
7	SS → ME	CALL DISCONNECT	
8	SS → ME	CALL SET UP with CLI	[MT Call Set Up With CLI]
9	ME → SIM	ENVELOPE: EVENT DOWNLOAD - MT Call 1.1.2	
10	SS → 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: SIM  
 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: SIM

## 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: SIM  
 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: SIM  
 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							

#### 27.22.7.1.5 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 11.14 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 11, clause 11.2 and clause 12.25.

###### 27.22.7.2.1.3 Test purpose

To verify that the ME informs the SIM 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 SIM Simulator and the System Simulator.

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)**

<b>Step</b>	<b>Direction</b>	<b>Message / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Call Connected active]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	SS → ME	SETUP	
6	USER → ME	Accept Call Set Up	[MT Call] Ti = 0
7	ME → SS	CONNECT	
8	ME → SIM	ENVELOPE: EVENT DOWNLOAD - Call Connected 1.1.1	
9	SS → ME	DISCONNECT	
10	USER → ME	Initiate Call to "123"	
11	ME → SS	SETUP	[MO Call] Ti = 0
12	SS → ME	CONNECT	
13	ME → SIM	ENVELOPE: EVENT DOWNLOAD - Call Connected 1.1.2	
14	USER → ME	End Call	
15	ME → SS	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: SIM  
 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: SIM

## 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:	SIM
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:	SIM
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 SIM Command as defined in:

- TS 11.14 [15] clause 11.2.2, clause 6.4.13 and clause 6.6.12.

##### 27.22.7.2.2.3 Test purpose

To verify that the ME informs the SIM 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 SIM Simulator and the System Simulator.

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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1	[EVENT: Call Connected active]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 2.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING	
6	ME → SIM	FETCH	
7	SIM → 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 → SS	SETUP	Ti=0
11	SS → ME	CONNECT	
12	ME → SIM	TERMINAL RESPONSE: SET UP CALL 2.1.1	
13	ME → SIM	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: SIM  
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: SIM  
 Result  
   General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00
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#### 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: SIM  
   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: SIM  
 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: SIM  
 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 1.1'.**

### 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 11.14 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 11, clause 11.3 and clause 12.25.

27.22.7.3.1.3 Test purpose

To verify that the ME informs the SIM 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 SIM Simulator and the System Simulator.

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)**

<b>Step</b>	<b>Direction</b>	<b>Message / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Call Disconnected active]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	SS → ME	SETUP	[ incoming call ] Ti=0
6	USER → ME	Accept Call Set Up	
7	SS → ME	RELEASE	[MT RELEASE]
8	ME → SIM	ENVELOPE: CALL DISCONNECTED 1.1.1	
9	SS → ME	SETUP	[ incoming call ] Ti=0
10	USER → ME	Accept Call Set Up	
11	SS → ME	RELEASE COMPLETE	[MT RELEASE COMPLETE]
12	ME → SIM	ENVELOPE: CALL DISCONNECTED 1.1.1	
13	SS → ME	SETUP	[ incoming call ] Ti=0
14	USER → ME	Accept Call Set Up	
15	USER → ME	End Call	
16	ME → SS	DISCONNECT	[MO DISCONNECT]
17	ME → SIM	ENVELOPE: CALL DISCONNECTED 1.1.2A or ENVELOPE: CALL DISCONNECTED 1.1.2B or ENVELOPE: CALL DISCONNECTED 1.1.2C	
18	SS → ME	SETUP	[ incoming call ] Ti=0
19	USER → ME	Accept Call Set Up	
20	SS → ME	DISCONNECT	[MT DISCONNECT + CAUSE: normal call clearing ]
21	ME → SIM	ENVELOPE: CALL DISCONNECTED 1.1.3A or ENVELOPE: CALL DISCONNECTED 1.1.3B	
22	SS → ME	SETUP	Ti=0
23	USER → ME	Accept Call Set Up	
24	SS	TX POWER to XX	[RADIO LINK FAILURE]
25	ME → SIM	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: SIM

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: SIM  
 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: SIM  
 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: SIM  
 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: SIM  
 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: SIM  
 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: SIM  
 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: SIM  
 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:	SIM
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:	SIM
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 11.14 [15] clause 11.4 and clause 6.4.16.

**27.22.7.4.1.3 Test purpose**

To verify that the ME informs the SIM 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 SIM Simulator and the System Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

The GSM 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)**

<b>Step</b>	<b>Direction</b>	<b>Message / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	SS	Cell 1 is switched off	
6	ME → SIM	ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.1	
7	SS	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 → SS	Location Updating Request	
10	SS → ME	Location updating accept	
11	ME → SIM	ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.2A or ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.2B	[Option A shall apply for GSM 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: SIM  
 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: SIM

## 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:	SIM
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:	SIM
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)

Coding:

BER-TLV:	D6	13	19	01	03	82	02	82	81	1B	01	00
	13	07	00	F1	10	00	02	00	02			

## EVENT DOWNLOAD - LOCATION STATUS 1.1.2B

Logically:

Event list:	Location status
Device identities	
Source device:	ME
Destination device:	SIM
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 11.14 [15] clause 5.2, clause 6.4.16, clause 6.8, clause 6.6.16, clause 6.11, clause 11, clause 11.5, clause 12.6 and clause 12.25.

## 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 SIM 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	[set up event list: event User Activity]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[set up event list: event User Activity]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
5	USER → ME	press any key	
6	ME → SIM	ENVELOPE EVENT DOWNLOAD -USER ACTIVITY 1.1.1	
7	USER → ME	press any key	check if no envelope Event Download-User activity sending to the SIM ( this event is reported once)

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST  
 Command qualifier: RFU  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Event list User Activity

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	04										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: RFU  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

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

EVENT DOWNLOAD -USER ACTIVITY 1.1.1

Logically:

Event list User Activity  
 Device identities  
 Source device: ME  
 Destination device: SIM

Coding:

BER-TLV:	D6	07	19	01	04	82	02	82	81
----------	----	----	----	----	----	----	----	----	----

#### 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 11.14 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 11, clause 11.1 and clause 12.25.

## 27.22.7.6.1.3 Test purpose

To verify that the ME informs the SIM 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 SIM Simulator and the System Simulator.

The elementary files are coded as SIM 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 System Simulator.

## 27.22.7.6.1.4.2 Procedure

**Expected Sequence 1.1 (EVENT DOWNLOAD - IDLE SCREEN AVAILABLE)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	USER → ME	Select screen other than the ME idle screen	
2	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	[set up event list: idle screen available]
3	ME → SIM	FETCH	
4	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[set up event list: idle screen available]
5	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
6	USER → ME	Select ME idle screen	
7	ME → SIM	ENVELOPE: IDLE SCREEN AVAILABLE 1.1.1	
8	USER → ME	Select screen other than the ME idle screen	
9	USER → ME	Select ME idle screen	
10	ME → SIM	ENVELOPE: IDLE SCREEN AVAILABLE shall not be sent to the SIM	

## 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: SIM  
 Destination device: ME

## Event list

Event 1: idle screen available

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	05										

## TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

## EVENT DOWNLOAD - IDLE SCREEN AVAILABLE 1.1.1

Logically:

Event list	Idle screen available
Device identities	
Source device:	Display
Destination device:	SIM

Coding:

BER-TLV:	D6	07	19	01	05	82	02	02	81
----------	----	----	----	----	----	----	----	----	----

## 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 11.14 [15] clause 4.7, clause 4.9, clause 5.2, clause 6.4.16, clause 6.8, clause 11, clause 11.7, clause 12.25, clause 12.33, annex G, annex H, clause 12.25 and clause 12.7.

## 27.22.7.7.1.3 Test purpose

To verify that the ME informs the SIM 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 SIM 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)**

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Card Reader Status]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Successfully]
5	User → ME	Insert a card in Reader	
6	ME → SIM	ENVELOPE: CARD READER STATUS 1.1.1a or ENVELOPE: CARD READER STATUS 1.1.1b Or ENVELOPE: CARD READER STATUS 1.1.1c Or ENVELOPE: CARD READER STATUS 1.1.1d	
7	User → ME	Remove the card from Reader	
8	ME → SIM	ENVELOPE: CARD READER STATUS 1.1.2a Or ENVELOPE: CARD READER STATUS 1.1.2b Or ENVELOPE: CARD READER STATUS 1.1.2c Or ENVELOPE: CARD READER STATUS 1.1.2d	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

#### Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

#### Device identities

Source device: SIM  
 Destination device: ME

#### Event list

Event 1: Card Reader Status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	06								

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1a

Logically:

Event list

Event 1: Card Reader Status

Device identities

Source device: ME  
 Destination device: SIM

Card reader status

Identity of card reader: 01  
 Card reader removable: Yes  
 Card reader present: Yes  
 Card reader ID-1 size: Yes  
 Card present in reader: Yes  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	79
----------	----	----	----	----	----	----	----	----	----	----	----	----

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1b

Logically:

Event list

Event 1: Card Reader Status

Device identities

Source device: ME  
 Destination device: SIM

Card reader status

Identity of card reader: 01  
 Card reader removable: Yes  
 Card reader present: Yes  
 Card reader ID-1 size: No  
 Card present in reader: Yes  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	59
----------	----	----	----	----	----	----	----	----	----	----	----	----

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1c

Logically:

Event list  
 Event 1: Card Reader Status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: No  
 Card reader present: Yes  
 Card reader ID-1 size: Yes  
 Card present in reader: Yes  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	71
----------	----	----	----	----	----	----	----	----	----	----	----	----

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1d

Logically:

Event list  
 Event 1: Card Reader Status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: No  
 Card reader present: Yes  
 Card reader ID-1 size: No  
 Card present in reader: Yes  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	51
----------	----	----	----	----	----	----	----	----	----	----	----	----

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2a

Logically:

Event list  
 Event 1: Card Reader Status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: Yes  
 Card reader present: Yes  
 Card reader ID-1 size: Yes  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	39
----------	----	----	----	----	----	----	----	----	----	----	----	----

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2b

Logically:

Event list  
 Event 1: Card Reader Status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: Yes  
 Card reader present: Yes  
 Card reader ID-1 size: No  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	19
----------	----	----	----	----	----	----	----	----	----	----	----	----

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2c

Logically:

Event list  
 Event 1: Card Reader Status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: No  
 Card reader present: Yes  
 Card reader ID-1 size: Yes  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	31
----------	----	----	----	----	----	----	----	----	----	----	----	----

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2d

Logically:

Event list  
 Event 1: Card Reader Status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: No  
 Card reader present: Yes  
 Card reader ID-1 size: No  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	11
----------	----	----	----	----	----	----	----	----	----	----	----	----

#### 27.22.7.7.1.5 Test requirement

**The behaviour of the test is as defined in 'Expected Sequence 1.1'.**

#### 27.22.7.7.2 Card Reader Status(detachable card reader)

##### 27.22.7.7.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.7.7.2.2 Conformance requirement

The ME shall support the EVENT: Call Card Reader Status event as defined in:

- TS 11.14 [15] clause 4.7, clause 4.9, clause 5.2, clause 6.4.16, clause 6.8, clause 11, clause 11.7, clause 12.25, clause 12.33, annex G, annex H, clause 12.25 and clause 12.7.

##### 27.22.7.7.2.3 Test purpose

To verify that the ME informs the SIM 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 SIM 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)**

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[SET UP EVENT: Card Reader Status]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Successfully]
5	User → ME	Attach the Card Reader to ME	
6	ME → SIM	ENVELOPE: CARD READER STATUS 2.1.1a Or ENVELOPE: CARD READER STATUS 2.1.1b	
7	User → ME	Detach the Card Reader from ME	
8	ME → SIM	ENVELOPE: CARD READER STATUS 2.1.2a Or ENVELOPE: CARD READER STATUS 2.1.2b	

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.1a

Logically:

Event list  
 Event 1: Card Reader Status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: Yes  
 Card reader present: Yes  
 Card reader ID-1 size: Yes  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	39
----------	----	----	----	----	----	----	----	----	----	----	----	----

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.1b

Logically:

Event list  
 Event 1: Card Reader Status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: Yes  
 Card reader present: Yes  
 Card reader ID-1 size: No  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	19
----------	----	----	----	----	----	----	----	----	----	----	----	----

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.2a

Logically:

Event list  
 Event 1: Card Reader Status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: Yes  
 Card reader present: No  
 Card reader ID-1 size: Yes  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	29
----------	----	----	----	----	----	----	----	----	----	----	----	----

ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.2b

Logically:

Event list  
 Event 1: Card Reader Status  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Card reader status  
 Identity of card reader: 01  
 Card reader removable: Yes  
 Card reader present: No  
 Card reader ID-1 size: No  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV:	D6	0A	99	01	06	82	02	82	81	A0	01	09
----------	----	----	----	----	----	----	----	----	----	----	----	----

27.22.7.7.1.5 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 11.14 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 11, clause 11.8 and clause 12.25.

## 27.22.7.8.1.3 Test purpose

To verify that the ME informs the SIM 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 SIM Simulator.

The elementary files are coded as SIM 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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	[set up event list: language selection]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[set up event list: language selection]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
5	USER → ME	Change the language to German.	
6	ME → SIM	ENVELOPE: LANGUAGE SELECTION 1.1.1	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

## Command details

Command number:	1
Command type:	SET UP EVENT LIST
Command qualifier:	'00'

## Device identities

Source device:	SIM
Destination device:	ME

## Event list

Event 1:	language selection
----------	--------------------

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	07										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

## EVENT DOWNLOAD - LANGUAGE SELECTION 1.1.1

Logically:

Event list	Language selection
Device identities	
Source device:	ME
Destination device:	SIM
Language	
Language	'de' → 64 65 (German)

Coding:

BER-TLV:	D6	0B	19	01	07	82	02	82	81	2D	02	64

## 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 11.14 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 11, clause 11.9, clause 12.25, clause 12.51, annex G and clause 12.7.

## 27.22.7.9.1.3 Test purpose

To verify that the ME informs the SIM 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 SIM Simulator and the System Simulator.

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	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Browser termination Status]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Successfully]
5	User→ME	Launch the browser with URL selected by the user.	
6	ME→SS	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→ SIM	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:	SIM
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: SIM  
 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: SIM  
 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 11.14 [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 SIM 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 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 and performed the PROFILE DOWNLOAD procedure. The SIM 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.2/6.

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: 02  
Delay Class: 04  
Reliability Class: 05  
Peak throughput class: 05  
Mean throughput class: 31  
Packet data protocol: 02 (IP)

#### GPRS Parameters

Network access name: TestGp.rs  
User login: UserLog  
User password: UserPwd

#### SIM/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)**

<b>Step</b>	<b>Direction</b>	<b>MESSAGE / Action</b>	<b>Comments</b>
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	[Command performed successfully]
4	ME → USER	The ME may display channel opening information	
5	ME → SS	PDP context activation request	
6	SS → ME	PDP context activation accept	
7	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	
8	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
11	ME → SS	Transfer of 8 Bytes of data to the SS through channel 1	[To retrieve ME's port number]
12	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
13	SS → ME	Data sent through the BIP channel using the ME's port number, which was retrieved in step 11	
14	ME → SIM	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: SIM  
 Destination device: ME

##### Bearer

Bearer type: GPRS  
 Bearer parameter:  
     Precedence Class: 02  
     Delay Class: 04  
     Reliability Class: 05  
     Peak throughput class: 05  
     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)

##### SIM/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	02	04	05	05	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: SIM

#### 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: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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	02	04	05	05	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: SIM

#### 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: 05

Peak throughput class: 05  
 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	05	05	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: SIM  
 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: SIM

## 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: SIM

## 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 11.14 [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 SIM 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 SIM 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.2/6.

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: 02  
 Delay Class: 04  
 Reliability Class: 05  
 Peak throughput class: 05  
 Mean throughput class: 31  
 Packet data protocol: 02 (IP)

## GPRS Parameters

Network access name: TestGp.rs  
 User login: UserLog  
 User password: UserPwd

SIM/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	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: channel status]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	ME → USER	The ME may display channel opening information	
9	ME → SS	PDP context activation request	
10	SS → ME	PDP context activation accept	
11	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
12	SS → ME	Link dropped	
13	ME → SIM	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: SIM  
 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: SIM

## 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: SIM  
 Destination device: ME

## Bearer

Bearer type: GPRS  
 Bearer parameter:  
   Precedence Class: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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)

## SIM/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	02	04	05	05	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: SIM

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: 02  
   Delay Class: 04  
   Reliability Class: 05  
   Peak throughput class: 05  
   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	02	04	05	05	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: SIM

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: 05  
   Peak throughput class: 05  
   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	05	05	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: SIM  
 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.

### 27.22.8 MO SHORT MESSAGE CONTROL BY SIM

#### 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 11.14 [15] clause 9.2.

The ME shall also support the SEND SMS facility as specified in

- TS 11.14 [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 SIM command, the ME shall first pass the RP\_destination\_address of the service center and the TP\_Destination\_Address to the SIM, using the ENVELOPE (MO Short Message CONTROL).

To verify that if the SIM responds with '90 00', the ME shall send the SMS with the address unchanged.

To verify that if the SIM responds with '93 00', the ME shall not send the SMS and may retry the command.

To verify that if the SIM responds with '9F XX', the ME shall use the GET RESPONSE command to get the response data. The response data from the SIM shall indicate to the ME whether to send the SM as proposed, not send the SM, send the SM using the data supplied by the SIM.

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 SIM using TERMINAL RESPONSE "interaction with call control by SIM or MO short message control by SIM, 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 SIM Simulator.

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

The MO SMS control service is enabled.

The SMS service center address in the ME shall be set to “+112233445566778” prior to the execution of the tests.

The GSM 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 SIM , with Proactive command, Allowed, no modification')**

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> SIM	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A Or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters]  [Option B shall apply for PCS1900 parameters]
6	SIM -> ME	9F 02	
7	ME -> SIM	GET RESPONSE	
8	SIM -> ME	MO SMS CONTROL RESULT 1.1.1	[ "Allowed, no modification"]
9	ME -> SS	Send SMS-PP Message 1.1	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
10	SS -> ME	SMS RP-ACK	
11	ME -> SIM	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: SIM  
 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: SIM  
 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)

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	F1	10	00	01	00
	01										

#### ENVELOPE MO SHORT MESSAGE CONTROL 1.1.1B

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 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: SIM

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 SIM , 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 -> SIM	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters]  [Option B shall apply for PCS1900 parameters]
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	MO SHORT MESSAGE CONTROL RESULT 1.1.1	[ "Allowed, no modification"]
6	ME -> SS	Send SMS-PP Message 1.2	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.2 without modification]
7	SS -> 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 SIM , with Proactive command, Not allowed')

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> 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 -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters]  [Option B shall apply for PCS1900 parameters]
6	SIM -> ME	9F 02	
7	ME -> SIM	GET RESPONSE	
8	SIM -> ME	MO SHORT MESSAGE CONTROL RESULT 1.3.1	[ "not Allowed"]
9	ME -> SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1	[ Permanent Problem - Interaction with Call Control or MO short message control by SIM ]
10	ME -> SS	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

Result  
 Destination device: SIM  
 General Result: Interaction with call control or MO-SM by SIM 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 SIM , 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 -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	MO SM CONTROL RESULT 1.3.1	[ "Not allowed"]
6	ME -> SS	The ME does not send the Short Message	

#### Expected Sequence 1.5 (MO SM CONTROL BY SIM , with Proactive command, Allowed with modifications')

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	Send SMS to "+012345678"
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> SIM	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
6	SIM -> ME	9F 15	
7	ME -> SIM	GET RESPONSE	
8	SIM -> ME	MO SM CONTROL RESULT 1.5.1	[ "Allowed with modifications"]
9	ME -> SS	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 SIM to the changed Service Center Address "+112233445566779" ]
10	SS -> ME	SMS RP-ACK	
11	ME -> SIM	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:

BER-TLV:	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: SIM

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 SIM , 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 -> SIM	ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM -> ME	9F XX	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	MO SM CONTROL RESULT 1.5.1	[ "Allowed with modifications"]
6	ME-> SS	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 SIM] to the changed Service Center Address "+112233445566779"
7	SS -> 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 SIM , with Proactive command, the SIM responds with '90 00', Allowed, no modification)**

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	Send SMS to "+012345678"
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
6	SIM -> ME	90 00	
7	ME -> SS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
8	SS -> ME	SMS RP-ACK	
9	ME -> SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	

**Expected Sequence 1.8 (MO SM CONTROL BY SIM , Send Short Message attempt by user, the SIM 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 → SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1 A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	90 00	
4	ME → SS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.2 without modification]
5	SS -> ME	SMS RP-ACK	

**Expected Sequence 1.9 Void**

#### 27.22.8.5 Test requirement

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

---

## Annex A: Void

---

## Annex B: Void

---

## Annex C: Void

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## Annex D (normative): Details of Test-SIM (TestSIM)

The TestSIM shall be able to present the following data:

### ANSWER TO RESET

Logically:

TS (Initial character):	'3B'
T0 (Format character):	'86' (Following interface characters: TD(1), number of historical characters: 6)
TD1:	'00' (Following interface characters: none, Transfer protocol: T=0)
T1:	91
T2:	99
T3:	00
T4:	12
T5:	C1
T6:	00

Coding:

BER-TLV:	3B	86	00	91	99	00	12	C1	00
----------	----	----	----	----	----	----	----	----	----

- For a successful outcome of the command "Select MasterFile" the TestSIM shall send SW1/SW2 "9F 1B".
- 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							

- For a successful outcome of the command "Select GSM" the TestSIM shall send SW1/SW2 "9F 1B".
- For a successful outcome of the command "Select PLMN" the TestSIM shall send SW1/SW2 "9F 0F".
- EF<sub>PLMN</sub> 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<sub>PLMN</sub> shall be FF FF ... FF (logically: Empty).

## Annex E (normative): Details of terminal profile support

Table E.1: TERMINAL PROFILE support

Item	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
1	Profile Download	TS 11.14, 5	R96	M		PD_Pro_DvnL
2	SMS-PP data download	TS 11.14, 5	R96	M		PD_SMS_PP
3	Cell Broadcast data download	TS 11.14, 5	R96	M		PD_CB
4	Menu selection	TS 11.14, 5	R96	C228 AND C229		PD_Menu_sel
5	'9EXX' response code for SIM data download error	TS 11.14, 5	R97	C224		PD_9EXX
6	Timer expiration	TS 11.14, 5	R98	M		PD_TExpir
7	USSD string data object supported in Call Control	TS 11.14, 5	R98	M		PD_CC_USSD_Str
8	Envelope Call Control always sent to the SIM during automatic redial mode	TS 11.14, 5	R99	C225 AND C231		PD_CC_Auto_Redial
9	Command result	TS 11.14, 5	R96	M		PD_Cmd_Res
10	Call Control by SIM	TS 11.14, 5	R96	C231		PD_CC
11	Cell identity included in Call Control by SIM	TS 11.14, 5	R97	C231		PD_CC_Cell_Id
12	MO short message control by SIM	TS 11.14, 5	R98	M		PD_MO_SMS_CC
13	Handling of the alpha identifier	TS 11.14, 5	R97	M		PD_Alpha_Id
14	UCS2 Entry supported	TS 11.14, 5	R97	C203 AND C229		PD_UCS2_entry
15	UCS2 Display supported	TS 11.14, 5	R97	C204 AND C228		PD_UCS2_Display
16	Display of the extension text	TS 11.14, 5	R98	C205 AND C228		PD_Disp_Ext_Text
17	DISPLAY TEXT	TS 11.14, 5	R96	C228		PD_Display_Text
18	GET INKEY	TS 11.14, 5	R96	C228 AND C229		PD_Get_Inkey
19	GET INPUT	TS 11.14, 5	R96	C228 AND C229		PD_Get_Input
20	MORE TIME	TS 11.14, 5	R96	M		PD_More_Time
21	PLAY TONE	TS 11.14, 5	R96	C230		PD_Play_Tone
22	POLL INTERVAL	TS 11.14, 5	R96	M		PD_Poll_interval
23	POLLING OFF	TS 11.14, 5	R96	M		PD_Polling_Off
24	REFRESH	TS 11.14, 5	R96	M		PD_Refresh
25	SELECT ITEM	TS 11.14, 5	R96	C228 AND C229		PD_Select_Item
26	SEND SHORT MESSAGE	TS 11.14, 5	R96	M		PD_Send_SMS
27	SEND SS	TS 11.14, 5	R96	M		PD_Send_SS
28	SEND USSD	TS 11.14, 5	R98	M		PD_Send_USSD
29	SET UP CALL	TS 11.14, 5	R96	C228 AND C229 AND C231		PD_SetUp_Call

Item	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
30	SET UP MENU	TS 11.14, 5	R96	C228 AND C229		PD_SetUp_Menu
31	PROVIDE LOCAL INFORMATION (LOCI & IMEI)	TS 11.14, 5	R96	M		PD_Provide_Local
32	PROVIDE LOCAL INFORMATION (NMR)	TS 11.14, 5	R97	M		PD_Provide_Local_NMR
33	SET UP EVENT LIST	TS 11.14, 5	R98	M		PD_Setup_Evt_List
34	Event: MT call	TS 11.14, 5	R98	C231		PD_MT_Call
35	Event: Call connected	TS 11.14, 5	R98	C231		PD_Call_Conn
36	Event: Call disconnected	TS 11.14, 5	R98	C231		PD_Call_Disc
37	Event: Location status	TS 11.14, 5	R98	M		PD_Loc_Status
38	Event: User activity	TS 11.14, 5	R98	C229		PD_User_Act
39	Event: Idle screen available	TS 11.14, 5	R98	C228		PD_Idle_Scr_Avail
40	Event: Card reader status	TS 11.14, 5	R98	C206		PD_Evt_Rdr_Status
41	Event: Language selection	TS 11.14, 5	R99	C232		PD_Lang_Select
42	Event: Browser Termination	TS 11.14, 5	R99	C212 AND C228 AND C229		PD_Browser_Term
43	Event: Data available	TS 11.14, 5	R99	C223		PD_Data_Avail
44	Event: Channel status	TS 11.14, 5	R99	C223		PD_Evt_Ch_Status
45	RFU	TS 11.14, 5	R96	X		PD_RFU_45
46	RFU	TS 11.14, 5	R96	X		PD_RFU_46
47	RFU	TS 11.14, 5	R96	X		PD_RFU_47
48	RFU	TS 11.14, 5	R96	X		PD_RFU_48
49	POWER ON CARD	TS 11.14, 5	R98	C206		PD_C_On
50	POWER OFF CARD	TS 11.14, 5	R98	C206		PD_C_Off
51	PERFORM CARD APDU	TS 11.14, 5	R98	C206		PD_C_APDU
52	GET READER STATUS (Card reader status)	TS 11.14, 5	R98	C206		PD_Get_Rdr_Status
53	GET READER STATUS (Card reader identifier)	TS 11.14, 5	R99	C208		PD_Get_Rdr_Id
54	RFU	TS 11.14, 5	R96	X		PD_RFU_54
55	RFU	TS 11.14, 5	R96	X		PD_RFU_55
56	RFU	TS 11.14, 5	R96	X		PD_RFU_56
57	TIMER MANAGEMENT (start, stop)	TS 11.14, 5	R98	M		PD_Timer_Mgt_Start_Stop
58	TIMER MANAGEMENT (get current value)	TS 11.14, 5	R98	M		PD_Timer_Val
59	PROVIDE LOCAL INFORMATION (date, time and time zone)	TS 11.14, 5	R98	M		PD_Provide_Local_D_Time
60	Binary choice in GET INKEY	TS 11.14, 5	R98	C229		PD_Bin_Get_Inkey
61	SET UP IDLE MODE TEXT	TS 11.14, 5	R98	C228		PD_Stup_Id_Mod_Txt
62	RUN AT COMMAND (i.e. class "b" is supported)	TS 11.14, 5	R98	C209		PD_Run_AT
63	2 <sup>nd</sup> alpha identifier in SET UP CALL	TS 11.14, 5	R98	C226 AND C228 AND C229 AND C231		PD_SetUp_Call_Sec_Alpha_Id
64	2 <sup>nd</sup> capability configuration parameter	TS 11.14, 5	R98	C210 AND C231		PD_Cap_Conf_Param
65	Sustained DISPLAY TEXT	TS 11.14, 5	R98	C211 AND C228		PD_Sustained_Displ_Txt
66	SEND DTMF command	TS 11.14, 5	R98	C231		PD_Send_DTMF

Item	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
67	PROVIDE LOCAL INFORMATION - BCCH	TS 11.14, 5	R98	M		PD_Provide_Local_B_CCH_List
68	PROVIDE LOCAL INFORMATION (language)	TS 11.14, 5	R99	M		PD_Provide_Local_L_S
69	PROVIDE LOCAL INFORMATION (Timing Advance)	TS 11.14, 5	R99	M		PD_Provide_Local_T_A
70	LANGUAGE NOTIFICATION	TS 11.14, 5	R99	C232		PD_Lang_Notif
71	LAUNCH BROWSER	TS 11.14, 5	R99	C212 AND C228 AND C229		PD_Launch_Brws
72	RFU	TS 11.14, 5	R96	X		PD_RFU_72
73	Soft keys support for SELECT ITEM	TS 11.14, 5	R99	C213		PD_Softkey_Select_Item
74	Soft Keys support for SET UP MENU	TS 11.14, 5	R99	C213		PD_Softkey_SetUp_Menu
75	RFU	TS 11.14, 5	R96	X		PD_RFU_75
76	RFU	TS 11.14, 5	R96	X		PD_RFU_76
77	RFU	TS 11.14, 5	R96	X		PD_RFU_77
78	RFU	TS 11.14, 5	R96	X		PD_RFU_78
79	RFU	TS 11.14, 5	R96	X		PD_RFU_79
80	RFU	TS 11.14, 5	R96	X		PD_RFU_80
81	Maximum number of soft keys available ('FF' = RFU)	TS 11.14, 5	R99	C214		PD_Max_SoftKey
82	Maximum number of soft keys available ('FF' = RFU)	TS 11.14, 5	R99	C214		PD_Max_SoftKey
83	Maximum number of soft keys available ('FF' = RFU)	TS 11.14, 5	R99	C214		PD_Max_SoftKey
84	Maximum number of soft keys available ('FF' = RFU)	TS 11.14, 5	R99	C214		PD_Max_SoftKey
85	Maximum number of soft keys available ('FF' = RFU)	TS 11.14, 5	R99	C214		PD_Max_SoftKey
86	Maximum number of soft keys available ('FF' = RFU)	TS 11.14, 5	R99	C214		PD_Max_SoftKey
87	Maximum number of soft keys available ('FF' = RFU)	TS 11.14, 5	R99	C214		PD_Max_SoftKey
88	Maximum number of soft keys available ('FF' = RFU)	TS 11.14, 5	R99	C214		PD_Max_SoftKey
89	OPEN CHANNEL	TS 11.14, 5	R99	C223		PD_Open_Ch
90	CLOSE CHANNEL	TS 11.14, 5	R99	C223		PD_Close_Ch
91	RECEIVE DATA	TS 11.14, 5	R99	C223		PD_Rx_Data
92	SEND DATA	TS 11.14, 5	R99	C223		PD_Send_Data
93	GET CHANNEL STATUS	TS 11.14, 5	R99	C223		PD_Get_Ch_Status
94	RFU	TS 11.14, 5	R96	X		PD_RFU_94
95	RFU	TS 11.14, 5	R96	X		PD_RFU_95
96	RFU	TS 11.14, 5	R96	X		PD_RFU_96
97	CSD supported by ME	TS 11.14, 5	R99	C207		PD_CSD
98	GPRS supported by ME	TS 11.14, 5	R99	C222		PD_GPRS
99	RFU	TS 11.14, 5	R96	X		PD_RFU_99
100	RFU	TS 11.14, 5	R96	X		PD_RFU_100
101	RFU	TS 11.14, 5	R96	X		PD_RFU_101
102	Number of channels supported by ME	TS 11.14, 5	R99	C227		PD_Nb_Channel
103	Number of channels supported by ME	TS 11.14, 5	R99	C227		PD_Nb_Channel
104	Number of channels supported by ME	TS 11.14, 5	R99	C227		PD_Nb_Channel
105	Number of characters supported down the ME	TS 11.14, 5	R99	C234		PD_Nb_Char
106	Number of characters supported down the ME	TS 11.14, 5	R99	C234		PD_Nb_Char

Item	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
107	Number of characters supported down the ME	TS 11.14, 5	R99	C234		PD_Nb_Char
108	Number of characters supported down the ME	TS 11.14, 5	R99	C234		PD_Nb_Char
109	Number of characters supported down the ME	TS 11.14, 5	R99	C234		PD_Nb_Char
110	No display capability (i.e. class "ND" is indicated)	ETSI TS 102 223, cl. 5.2	Rel-8	C235		PD_Type_ND
111	No keypad available (i.e. class "NK" is indicated)	ETSI TS 102 223, cl. 5.2	Rel-8	C236		PD_Type_NK
112	Screen Sizing Parameters	TS 11.14, 5	R99	C216		PD_Screen_Siz
113	Number of characters supported across the ME display	TS 11.14, 5	R99	C234		PD_Nb_Char_Disp
114	Number of characters supported across the ME display	TS 11.14, 5	R99	C234		PD_Nb_Char_Disp
115	Number of characters supported across the ME display	TS 11.14, 5	R99	C234		PD_Nb_Char_Disp
116	Number of characters supported across the ME display	TS 11.14, 5	R99	C234		PD_Nb_Char_Disp
117	Number of characters supported across the ME display	TS 11.14, 5	R99	C234		PD_Nb_Char_Disp
118	Number of characters supported across the ME display	TS 11.14, 5	R99	C234		PD_Nb_Char_Disp
119	Number of characters supported across the ME display	TS 11.14, 5	R99	C234		PD_Nb_Char_Disp
120	Variable size fonts Supported	TS 11.14, 5	R99	C233		PD_Var_Font
121	Display can be resized	TS 11.14, 5	R99	C218		PD_Disp_Resiz
122	Text Wrapping supported	TS 11.14, 5	R99	C233		PD_Txt_Wrap
123	Text Scrolling supported	TS 11.14, 5	R99	C233		PD_Txt_Scroll
124	RFU	TS 11.14, 5	R96	X		PD_RFU_124
125	RFU	TS 11.14, 5	R96	X		PD_RFU_125
126	Width reduction when in a menu	TS 11.14, 5	R99	C234		PD_Width_Reduc
127	Width reduction when in a menu	TS 11.14, 5	R99	C234		PD_Width_Reduc
128	Width reduction when in a menu	TS 11.14, 5	R99	C234		PD_Width_Reduc
129	TCP	TS 11.14, 5	R99	C220		PD_TCP
130	UDP	TS 11.14, 5	R99	C221		PD_UDP
131	RFU	TS 11.14, 5	R96	X		PD_RFU_131
132	RFU	TS 11.14, 5	R96	X		PD_RFU_132
133	RFU	TS 11.14, 5	R96	X		PD_RFU_133
134	RFU	TS 11.14, 5	R96	X		PD_RFU_134
135	RFU	TS 11.14, 5	R96	X		PD_RFU_135
136	RFU	TS 11.14, 5	R96	X		PD_RFU_136
137	RFU	TS 11.14, 5	R96	X		PD_RFU_137
138	RFU	TS 11.14, 5	R96	X		PD_RFU_138
139	RFU	TS 11.14, 5	R96	X		PD_RFU_139
140	RFU	TS 11.14, 5	R96	X		PD_RFU_140
141	RFU	TS 11.14, 5	R96	X		PD_RFU_141
142	RFU	TS 11.14, 5	R96	X		PD_RFU_142
143	RFU	TS 11.14, 5	R96	X		PD_RFU_143
144	RFU	TS 11.14, 5	R96	X		PD_RFU_144
145	Protocol Version	TS 11.14, 5	R99	TBD		
146	Protocol Version	TS 11.14, 5	R99	TBD		
147	Protocol Version	TS 11.14, 5	R99	TBD		

Item	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
148	Protocol Version	TS 11.14, 5	R99	TBD		
149	RFU	TS 11.14, 5	R96	X		PD_RFU_149
150	RFU	TS 11.14, 5	R96	X		PD_RFU_150
151	RFU	TS 11.14, 5	R96	X		PD_RFU_151
152	RFU	TS 11.14, 5	R96	X		PD_RFU_152
C201	Void			-- Void		
C202	Void			-- Void		
C203	IF A.1/3 THEN M ELSE O.1			-- O_Ucs2_Entry		
C204	IF A.1/15 THEN M ELSE O.1			-- O_Ucs2_Dispatcher		
C205	IF A.1/4 THEN M ELSE O.1			-- O_Ext_Stripper		
C206	IF A.1/7 THEN M ELSE O.1			-- O_Dual_Slot		
C207	IF A.1/12 THEN M ELSE O.1			-- O_BIP_CSD		
C208	IF (A.1/7 AND A.1/8) THEN M ELSE O.1			-- O_Dual_Slot AND O_Detach_Rdr		
C209	IF A.1/9 THEN M ELSE O.1			-- O_Run_At		
C210	IF A.1/1 THEN M ELSE O.1			-- O_Cap_Conf		
C211	IF A.1/2 THEN M ELSE O.1			-- O_sust_text		
C212	IF A.1/10 THEN M ELSE O			-- O_LB		
C213	IF A.1/11 THEN M for at least one of the bits 1 - 2 of byte 10			-- O_Softkey		
C214	IF C213 THEN M for at least one, but not for all of the bits 1 - 8 of byte 11			-- O_Softkey (parameters)		
C215	Void			-- Void		
C216	IF A.1/13 THEN M ELSE O.1			-- O_Scr_Siz		
C217	Void			-- Void		
C218	IF A.1/14 THEN M ELSE O.1			-- O_Scr_Resiz		
C219	Void			-- Void		
C220	IF A.1/18 THEN M ELSE O.1			-- O_TCP		
C221	IF A.1/17 THEN M ELSE O.1			-- O_UDP		
C222	IF A.1/21 THEN M ELSE O.1			-- O_BIP_GPRS		
C223	IF (C207 OR C222) THEN M ELSE O.1			-- O_BIP_CSD OR O_BIP_GPRS		
C224	IF A.1/27 THEN M ELSE O.1			-- O_9EXX		
C225	IF A.1/28 THEN M ELSE O.1			-- O_CC_Auto_Redial		
C226	IF A.1/29 THEN M ELSE O.1			-- O_SetUp_Call_Sec_Alpha_Id		
C227	IF (C207 OR C222) THEN M for at least one of the bits 6 - 8 of byte 13			-- O_BIP_CSD OR O_BIP_GPRS		
C228	IF A.1/45 THEN M ELSE O.1			-- O_No_Type_ND		
C229	IF A.1/46 THEN M ELSE O.1			-- O_No_Type_NK		
C230	IF A.1/47 THEN M ELSE O.1			-- O_No_Type_NA		
C231	IF A.1/48 THEN M ELSE O.1			-- O_No_Type_NS		
C232	IF A.1/49 THEN M ELSE O.1			-- O_No_Type_NL		
C233	IF A.1/45 THEN O ELSE O.1			-- O_No_Type_ND		
C234	IF A.1/45 THEN bit values "0" / "1" allowed ELSE O.1			-- O_No_Type_ND		
C235	IF A.1/45 THEN O.1 ELSE M			-- O_No_Type_ND		
C236	IF A.1/46 THEN O.1 ELSE M			-- O_No_Type_NK		
O.1	Allowed: Bit value = "0" or bit not present					
<b>Comments:</b>						
This static requirement for the TERMINAL PROFILE is specifying the bit coding of this command. In the support column a "Yes" (or "Y" or "y") means bit coding "1" and a "No" (or "N" or "n") and "X" means bit coding "0" in the command.						

## Annex F (informative): Change History

TSG#	WG TD#	CR	Rev	Subject	New Ver
SMG# 30	-	-	-	Approved as release 1996 at SMG#30	5.0.0
		A001	-	Corrections to SIM Application Toolkit Test Specification	5.1.0
			-	Version update to 5.1.1 for Publication	5.1.1
		A002	-	Editorial and coding corrections	5.2.0
		A003	-	Correction of wrong coding for SIM Application Toolkit test 27.22.4.2	5.3.0
		A004	-	Corrections for Test Case 27.22.5.1 (SMS-PP Data Download)	5.3.0
		A005	-	Correction of wrong coding for SIM Application Toolkit 27.22	5.4.0
		A006	-	Corrections for Test Case 27.22.4.7 (REFRESH)	5.5.0
		A007	-	Corrections for Test Case 27.22.5.2 (SMS-CB Data Download)	5.5.0
		A008	-	Upgrade of the MS SAT test specification to Release 99	8.1.0
		A010r 1	-	Addition of Terminal Profile information, suppression of PLAY TONE Test sequence 1.2	8.2.0
		A011	-	References to 11.10-1 replaced. Reference to 11.10-2 removed.	8.3.0
		A012	-	Corrections to Send Short Message, Sequence 1.4	8.4.0
		A013	-	Redial in Set Up Call	8.4.0
		A014	-	Correction to Terminal Response: Set Up Call 1.7.1	8.4.0
		A015	-	Select Item: Support of "No response from user"	8.4.0
		A016	-	Correction of Emergency Call test cases	8.4.0
		A017	-	Essential corrections to default values for SIM Application Toolkit testing	
		A018	-	Clarification on comprehension required flag usage	8.5.0
		A019	-	Essential corrections to Display text test cases	
		A020	-	Essential corrections to Get Inkey test cases	
		A021	-	Essential corrections to Get Input test cases	8.5.0
		A022	-	Essential corrections to Set Up Menu test cases	
		A023	-	Essential corrections to Play Tone test cases	
		A024	-	Essential corrections to Poll Intervall test case	
		A025	-	Essential corrections to Polling off test case	8.5.0
		A026	-	Essential corrections to Provide Local Information test cases	8.5.0
		A027	-	Essential corrections to Send Short message test cases	8.5.0
		A028	-	Essential corrections to Language Notification test cases	8.5.0
		A029	-	Essential corrections to Send SS test cases	
		A030	-	Essential corrections to Set Up Call test cases	8.5.0
		A031	-	Essential corrections to Send USSD test cases	
		A032	-	Essential correction to Set Up Idle Mode Text test cases	8.5.0
		A033	-	Essential corrections to Power Off Card test case	
		A034	-	Essential corrections to Perform Card APDU test cases	
		A035	-	Essential correction to Get Reader Status test cases	
		A036	-	Essential corrections to Send DTMF test cases	
		A037	-	Essential corrections to CALL CONTROL BY SIM test cases	8.5.0
		A038	-	Essential corrections to CALL CONTROL BY SIM (Interaction with FDN/ BDN) test cases	8.5.0
		A039	-	Essential corrections to Select Item test cases	
		A040	-	Essential corrections to card reader status event download test cases	
		A041	-	Essential corrections to language selection and browser termination event download test cases	8.5.0
		A042	-	Essential corrections to Close Channel test cases	8.5.0
		A043	-	Essential corrections to Launch Browser test cases	8.5.0
		A044	-	Essential corrections to Open Channel test cases	
		A045	-	Essential corrections to Receive Data test cases	
		A046	-	Essential corrections to Send Data test cases	
		A047	-	Essential corrections to channel status event download test case	
		A048	-	Essential corrections to Get Channel Status test cases	
		A049	-	Essential corrections to CB data download test cases	
		A050	-	Essential corrections to location status, user activity and idle screen available event download test cases	8.5.0
		A051	-	Corrections in the REFRESH test sequences (with inclusion of T3-030535's contents)	8.5.0
		A052	-	Essential corrections to test requirement references	8.5.0
		A053	-	Essential corrections to CALL CONTROL BY SIM (supplementary services) test case	
		A054	-	Essential corrections to MT Call, Call connected and Call disconnected event download test cases	8.5.0
		A055	-	Introduction of "MO Short Message Control by SIM" envelope	8.6.0

			testing	
	A056	-	Re-Introduction of changes already approved at the last T3.	8.6.0
	A057	-	Essential corrections	8.6.0
	A058	-	Essential corrections to 27.22.4.14 "POLLING OFF"	8.6.0
	A059	-	Essential corrections to Send DTMF test cases	8.6.0
	A060	-	Introduction of BIP testing in GPRS	8.6.0
	A061	-	Correction of image instance descriptor for colour icons	8.7.0
	A062	-	Essential correction on Terminal Profile for the BIP Inclusion of tests on Open Channel for GPRS, on the user confirmation	8.7.0
	A063	-	CR 11.10-4 Launch Browser test cases	8.7.0
	A064	-	CR 11.10-4 R99: Essential corrections	8.7.0
	A065	-	CR 11.10-4 R99: Essential correction of coding convention	8.7.0
	A071	-	Correction of Cell Broadcast message download test	8.8.0
	A066	-	Essential corrections	8.8.0
	A067	-	Support of GSM 700, GSM 850 and PCS 1900	8.8.0
	A068	-	Corrections of applicability table	8.8.0
	A070	-	Correction on allowing optional parameters in ENVELOPE(CALL CONTROL) command for call set-ups when testing Call Control procedures	8.8.0
	A069	-	Essential corrections to Call Control test cases	8.8.0
	A076	-	Essential corrections of Event Download test cases	8.9.0
	A073	-	Essential corrections	8.9.0
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CT-29	C6-050632	A112	- CR 11.10-4: Correction of EF_BDN coding	8.13.0
CT-29	C6-050634	A127	- CR 11.10-4 R99: Essential correction to Terminal Profile table E.1	8.13.0
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CT-29	C6-050642	A116	- CR 11.10-4: Correction of TP-MR (TP Message Reference) of the SMS SUBMIT TPDU submitted to the SS (Network)	8.13.0
CT-29	C6-050644	A117	- CR 11.10-4: Corrections in the Logical description and BER encoding in clause 27.22.6.2 and 27.22.4.11	8.13.0

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CT-29	C6-050662	A119	-	CR 11.10-4: Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY SIM	8.13.0
CT-29	C6-050664	A120	-	CR 11.10-4: Essential Corrections	8.13.0
CT-29	C6-050671	A121	-	CR 11.10-4 R99: Essential corrections in clause 27.22.4.7.2 REFRESH (IMSI changing procedure)	8.13.0
CT-29	C6-050672	A122	-	CR 11.10-4 R99: Incorrect SMS-PP 1.4.1 TPDU in clause 27.22.4.22.1	8.13.0
CT-29	C6-050674	A123	-	CR 11.10-4 R99: Missing interactions in Bearer Independent Protocol test cases	8.13.0
CT-29	C6-050669	A124	-	CR 11.10-4 R99: Applicability of TC 27.22.4.7.1 and TCs related to FDN and BDN	8.13.0
CT-29	C6-050703	A126	-	Correction of CB message identifier	8.13.0
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CT-30	CP-050483	A114	-	Corrections of Set Up Call (second alpha identifier) test	8.14.0
CT-30	CP-050483	A129	-	Essential Corrections of Set Up Menu test	8.14.0
CT-30	CP-050483	A130	-	Essential Corrections in clause 27.22.4.11	8.14.0
CT-30	CP-050483	A131	-	Corrections to Select Item (icons support)	8.14.0
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CT-30	CP-050483	A134	-	Correction of applicability table	8.14.0
CT-30	CP-050483	A135	-	Correction in SMS-PP 1.4.1 TPDU of clause 27.22.4.22.1	8.14.0
CT-30	CP-050483	A136	-	Essential Corrections of SMS-PP download message in Refresh test case	8.14.0
CT-30	CP-050483	A137	-	Essential Correction in MO SHORT MESSAGE CONTROL BY SIM Deletion of sequence 1.9	8.14.0
CT-30	CP-050483	A138	-	Deletion of SEQ 1.3 in clause 27.22.4.13.1	8.14.0
CT-31	CP-060014	A148	-	Essential Corrections in clause 27.22.4.11	8.15.0
CT-31	CP-060014	A151	-	Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY SIM	8.15.0
CT-31	CP-060014	A147	-	Essential correction in SEQ 1.4 of clause 27.22.4.11.1 SEND SS (normal)	8.15.0
CT-31	CP-060014	A146	-	Essential corrections of Run AT Command tests	8.15.0
CT-31	CP-060014	A152	-	Essential corrections to SET UP CALL test sequences	8.15.0
CT-31	CP-060012	A158	-	Essential correction of Refresh IMSI changing tests	8.15.0
CT-31	CP-060012	A141	-	Essential correction of UCS2 related test case applicability	8.15.0
CT-31	CP-060012	A142	-	Removal of SEQ 2.2 in clause 27.22.4.12.2	8.15.0
CT-31	CP-060012	A150	-	Essential correction of Channel Data length in SEQ 1.1 of clause 27.22.4.30	8.15.0
CT-31	CP-060012	A145	-	Essential correction of SMS-CB (data download) tests	8.15.0
CT-31	CP-060013	A139	-	Deletion of Send Data test sequence	8.15.0
CT-31	CP-060013	A140	-	Essential correction of Provide Local Information (IMEI) test	8.15.0
CT-31	CP-060013	A143	-	Essential Correction in SEQ 1.8 of clause 27.22.8	8.15.0
CT-31	CP-060013	A144	-	Essential correction on 27.22.7.3.1 Call Disconnected Event	8.15.0
CT-31	CP-060013	A149	-	Essential correction of Channel Data length in clause 27.22.4.30	8.15.0
CT-31	CP-060015	A154	-	Essential Correction in TERMINAL RESPONSE coding of clause 27.22.4.31	8.15.0
CT-31	CP-060015	A156	-	Essential corrections to Timer Expiration tests	8.15.0
CT-31	CP-060015	A153	-	BER-TLV suppressions	8.15.0
CT-31	CP-060016	A155	-	Creation of a new TS 51.10-4, Rel-4 specification coming from TS 11.10-4 R99	51.010-4v4.0.0
CT-32	CP-060236	0001	-	Essential correction to prevent optional ME features being mandatorily tested	4.1.0
CT-32	CP-060236	0004	-	Essential correction of Language Selection Event test	4.1.0
CT-32	CP-060242	0002	-	Essential correction of BIP tests	4.1.0
CT-32	CP-060242	0003	-	Essential Correction in REGISTER 1.2B message coding of clause 27.22.4.11.1 SEND SS (normal)	4.1.0
CT-32	CP-060242	0005	-	Essential correction of 27.22.4.13.1 SET UP CALL, seq 1.4	4.1.0
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CT-32	CP-060242	0007	-	Correction of TON/NPI coding for Call Control Test case	4.1.0
CT-32	CP-060242	0008	-	Essential corrections on 27.22.4.11.1 sequence. 1.2	4.1.0
CT-33	CP-060382	0016	1	Essential correction of GET INPUT test	4.2.0
CT-33	CP-060382	0018	1	Essential correction of SEND DATA test	4.2.0
CT-33	CP-060382	0019	1	Correction of various typographical errors	4.2.0
CT-33	CP-060382	0010	2	Essential correction of BIP test cases	4.2.0
CT-33	CP-060517	0012	1	Essential corrections Set Up Call, seq. 1.9	4.2.0
CT-33	CP-060475	0014	1	Essential corrections of MMI entries in table E.1	4.2.0
CT-33	CP-060475	0009	1	Corrections to SET UP CALL test case 27.22.4.13.1	4.2.0
CT-33	CP-060475	0020	2	Essential corrections to SEND SS concerning longForwardedToNumber	4.2.0
CT-33	CP-060475	0017	2	Corrections to MO SHORT MESSAGE CONTROL BY SIM tests	4.2.0
CT-34	CP-060539	0023	-	Essential corrections on TC 27.22.4.29, sequence 1.1	4.3.0
CT-34	CP-060540	0021	-	Correction of APN Coding in Open Channel test case	4.3.0

CT-34	CP-060540	0013	2	Essential corrections of BIP entries in table E.1	4.3.0
CT-34	CP-060540	0022	2	Essential correction of Result TLV handling	4.3.0
CT-34	CP-060540	0024	1	Essential correction of expected sequence in OPEN CHANNEL test case	4.3.0
CT-35	CP-070062	0032		Essential correction of Send USSD applicability	4.4.0
CT-35	CP-070062	0030	1	Essential correction of GPRS QoS parameter in BIP tests	4.4.0
CT-35	CP-070062	0036	1	Test execution recommendation for terminals supporting both, SAT and USAT	4.4.0
CT-35	CP-070063	0029		Essential correction of 27.22.5.2	4.4.0
CT-35	CP-070063	0027	1	Essential correction of Terminal Profile Support table	4.4.0
CT-35	CP-070063	0026	1	Essential correction of 27.22.4.13.1 Expected Sequence 1.7	4.4.0
CT-36	CP-070290	0037	-	Correction of reference to ISO/IEC 7816-3	4.5.0
CT-36	CP-070290	0038	1	Essential correction of test case applicability for 27.22.6.1	4.5.0
CT-36	CP-070290	0039	1	Essential correction on 27.22.8	4.5.0
-	-	-	-	MCC Table formatting throughout document (reduces page count)	4.5.0
CT-37	CP-070609	0040	-	Essential correction to 27.22.8	4.6.0
CT-37	CP-070610	0041	1	Essential correction of 27.22.6.2	4.6.0
CT-37	CP-070610	0042	-	Essential correction of 27.22.4.13.1, seq. 1.9	4.6.0
CT-37	CP-070609	0043	-	Essential Correction to insert a missing Carriage Return	4.6.0
CT-38	CP-070843	0044	1	Essential correction of 27.22.4.7.1, seq. 1.6	4.7.0
CT-38	CP-070843	0045	1	Essential correction of 27.22.8, seq. 1.3	4.7.0
CT-38	CP-070843	0046	1	Essential correction of 27.22.4.26.2.4.2, seq. 2.2	4.7.0
CT-38	CP-070843	0047	-	Correction to add optional support of Call Hold Supplementary Service	4.7.0
CT-39	CP-080170	0048	1	Essential correction to network dependency of several tests	4.8.0
CT-40	CP-080389	0050	1	Essential correction of icon test case applicability	4.9.0
CT-40	CP-080389	0052	3	Essential correction of test case applicability of 27.22.6.2 and 27.22.4.11	4.9.0
CT-41	CP-080590	0053	1	Essential correction of TC 27.22.4.11.1 Seq. 1.4B	4.10.0
CT-42	CP-080948	0055	-	Essential correction of TC 27.22.7.8.1 network dependency	4.11.0
CT-42	CP-080948	0056	-	Essential correction of GPRS QoS parameter in browser tests	4.11.0
CT-42	CP-080948	0056	-	Essential correction of 27.22.4.26.2 Seq. 2.2	4.11.0
CT-42	CP-080948	0056	-	Pre-conditions for Launch browser	4.11.0
CT-43	CP-080189	0059		Essential correction to 27.22.4.3.6 (GET INPUT (display of Icon)), sequence 6.1A	4.12.0
CT-43	CP-080189	0060		Essential correction to 27.22.4.11.2 and 27.22.4.11.3 (SEND SS)	4.12.0
CT-43	CP-080189	0061		Essential correction to 27.22.4.31 (GET CHANNEL STATUS) sequence 1.3	4.12.0
CT-43	CP-080189	0062		Essential correction 27.22.4.14 (POLLING OFF)	4.12.0
CT-43	CP-080189	0063	1	Essential correction to BIP tests - usage of ME's default channel identifier	4.12.0
CT-44	CP-090460	0064	1	Test case and test case applicability changes for terminals with reduced SAT capabilities	4.13.0
CT-45	CP-090720	0066		Essential correction of applicability and terminal profile table	4.14.0
CT-45	CP-090720	0065	3	Essential correction to icon test applicability	4.14.0
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CT-47	CP-100179	0067	1	Correction of typo error	4.15.0
CT-47	CP-100179	0069	-	Essential correction to the condition table	4.15.0
CT-47	CP-100179	0068	-	Correction of applicability for 'no alpha identifier presented' sequences	4.15.0
CT-49	CP-100591	0071	1	Essential correction of Table E.1 regarding 'Width reduction when in a menu'	4.16.0
CT-49	CP-100591	0073	1	Essential correction to test case applicability of letter class C features	4.16.0
CT-49	CP-100591	0072	3	Essential correction to Open Channel 27.22.4.27.2 sequence 2.4 test	4.16.0
CT-49	CP-100619	0070	1	Essential correction of test 27.22.4.9.3	4.16.0
CT-50	CP-100833	0074	-	Essential correction of the applicability of test 27.22.4.22.1 Seq. 1.4	4.17.0
CT-50	CP-100833	0076	1	Clarification of 'ELSE' parts in Table E.1	4.17.0
CT-51	<a href="#">CP-110229</a>	0077	-	Correction of Send Short Message test case redundancy	4.18.0

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