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(Release 1999)**



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Keywords

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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 900 MHz, 1 800 MHz and 1900 MHz bands (GSM 900, DCS 1 800 and GSM 1900MHz), standardized by 3GPP TSGs.

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 900, GSM 1900 and DCS 1 800 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 test specification, and any other GSM technical specification or GSM related ETS or EN, then the other GSM technical specification or GSM related ETS or EN 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.
- For this Release 1999 document, references to GSM documents are for Release 1999 versions (version 8.x.y).

- [1] GSM 01.04: "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".
- [2] GSM 02.01: "Digital cellular telecommunications system (Phase 2+); Principles of telecommunication services supported by a GSM Public Land Mobile Network (PLMN)".
- [3] GSM 02.03: "Digital cellular telecommunications system (Phase 2+); Teleservices supported by a GSM Public Land Mobile Network (PLMN)".
- [4] GSM 02.04: "Digital cellular telecommunications system (Phase 2+); General on supplementary services".
- [5] GSM 02.06: "Digital cellular telecommunications system (Phase 2+); Types of Mobile Stations (MS)".
- [6] GSM 02.07: "Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) features".
- [7] GSM 03.38: "Digital cellular telecommunications system (Phase 2+); Alphabets and language-specific information".

- [8] GSM 03.40: "Digital cellular telecommunications system (Phase 2+); Technical realization of the Short Message Service (SMS); Point-to-Point (PP)".
- [9] GSM 03.41: "Digital cellular telecommunications system (Phase 2+); Technical realization of Short Message Service Cell Broadcast (SMSCB)".
- [10] GSM 04.08: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification".
- [11] GSM 04.11: "Digital cellular telecommunications system (Phase 2+); Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".
- [12] GSM 11.10-1: "Digital cellular telecommunication system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification".
- [13] GSM 11.11: "Digital cellular telecommunication system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".
- [14] GSM 11.12: "Digital cellular telecommunications system (Phase 2); Specification of the 3 Volt Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".
- [15] GSM 11.14: "Digital cellular telecommunications system (Phase 2+); Specification of the SIM application toolkit for the Subscriber Identity Module – Mobile Equipment (SIM – ME) interface".
- [16] GSM 11.10-2: "Digital cellular telecommunication system (Phase 2); Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [17] ISO/IEC 10646 ""
- [18] 3GPP TS 27.007: "AT command set for GSM Mobile Equipment (ME)".

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## 3 Definitions, symbols and abbreviations

### 3.1 Mobile station definition and configurations

The mobile station definition and configurations specified in GSM 11.10-1 [12] clause 3.1 shall apply, unless otherwise specified in the present clause.

### 3.2 Applicability

#### 3.2.1 Applicability of this specification

The applicability specified in GSM 11.10-1 [12] clause 3.2.1 shall apply, unless otherwise specified in the present clause.

### 3.2.2 Applicability of the individual tests

The applicability of each individual test is identified in the following table.

**Table 3.1: Applicability of tests**

<i>Command</i>	<i>Parameters / Features</i>	<i>Test sequence</i>	<i>Release</i>
PROFILE DOWNLOAD 27.22.1		1	All
<b>Contents of the TERMINAL PROFILE command 27.22.2</b>			All
Servicing of Proactive SIM Commands 27.22.3			All
<b>DISPLAY TEXT 27.22.4.1</b>			96
	unpacked	1.1	
	Screen busy	1.2	
	high priority	1.3	
	packed	1.4	
	high priority	1.3	
	clear after delay	1.5	
	clear after user confirmation	1.1	
	long text up to 160 bytes	1.6	
	Session terminated by user	1.8	
	long text up to 160 bytes	1.6	
	Backwards move in SIM session	1.7	
	Session terminated by user	1.8	
	Command not understood by ME	1.9	
	no response from user	2.1	97
	Long text up to 240 bytes	3.1	98
	sustained text	4.1, 4.2, 4.3, 4.4	98
	icons	5.1, 5.2, 5.3	98
	UCS2 display	6.1	97
<b>GET INKEY 27.22.4.2</b>			96



	prompt unpacked	1.1	
	prompt packed	1.2	
	digits only	1.1	
	Backwards move in SIM session	1.3	
	Session terminated by user	1.4	
	SMS alphabet	1.5	
	Long text up to 160 bytes	1.6	
	no response from user	2.1	
	UCS2 display	3.1	97
	UCS2 display, Long text up to 70 chars	3.2	97
	UCS2 format of entry	4.1	97
	“Yes/No” response	5.1	98
	icons	6.1, 6.2, 6.3, 6.4	98
	help information	7.1	97
<b>GET INPUT</b> <b>27.22.4.3</b>			96
	input unpacked	1.1	
	input packed	1.2	
	digits only	1.1	
	SMS alphabet	1.3	
	hidden input	1.4	
	min / max acceptable length	1.5, 1.9	
	Backwards move in SIM session	1.6	
	Session terminated by user	1.7	
	Prompt text up to 160 bytes	1.8	
	no response from user	2.1	
	UCS2 display	3.1, 3.2	97
	UCS2 entry	4.1, 4.2	97
	default text for the input	5.1, 5.2	97
	icons	6.1, 6.2, 6.3, 6.4	98
	help information	7.1	97

<b>MORE TIME</b> 27.22.4.4		1.1	96
<b>PLAY TONE</b> 27.22.4.5			96
	play all tones	1.1	
	display alpha	1.1	
	user termination	1.1	
	superimpose	1.1	
	UCS2 display	no	97
	icons	no	98
<b>POLL INTERVAL</b> 27.22.4.6			96
	duration	1.1	
<b>REFRESH</b> 27.22.4.7			96
	SIM initialisation, enabling FDN mode	1.1	
	file change notification of FDN file	1.2	
	SIM initialisation and file change notification of PLMN	1.3	
	SIM initialisation and full file change notification, enabling FDN mode	1.4	
	SIM reset	1.5	
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	Large menu	1.2	
	help information	2.1	97
	next action indicator	3.1	97
	icons	4.1, 4.2	98
	soft key access	5.1	98
<b>SELECT ITEM</b> 27.22.4.9			96

	Mandatory features	1.1	
	Large menu	1.2, 1.3, 1.5,1.6	
	Backwards move	1.4	
	user termination	1.4	
	no response	no	
	help information	4.1	97
	default selected item	3.1	97
	next action indicator	2.1	97
	Presentation style	6.1, 6.2	98
	icons	5.1, 5.2	98
	Soft keys	7.1	98
<b>SEND SMS 27.22.4.10</b>			96
	Packing not required	1.1, 1.3 1.5	
	Packing required	1.2, 1.4	
	8 bit data	1.1, 1.2	
	SMS default alphabet	1.3, 1.4, 1.5	
	160 bytes length	1.4, 1.5	
	Alpha identifier	1.6, 1.7, 1.8	
	UCS2 SMS	2.1	97
	icons	3.1, 3.2	97
<b>SEND SS 27.22.4.11</b>			96
	call forward unconditional, all bearers, successful	1.1	
	call forward unconditional, all bearers, Return Error	1.2	
	call forward unconditional, all bearers, Reject	1.3	
	call forward unconditional, all bearers, successful, SS request size limit	1.4	
	interrogate CLIR status, successful, alpha identifier limits	1.5	
	call forward unconditional, all bearers,	1.6	

	successful, null data alpha identifier		
	UCS2 display	3.1	97
	call forward unconditional, all bearers, successful, icon support	2.1, 2.2, 2.3, 2.4	98
<b>SEND USSD 27.22.4.12</b>	<b>TBD</b>		96
<b>SET UP CALL 27.22.4.13</b>			96
	Call confirmed by the user and connected	1.1	
	call rejected by the user	1.2	
	redial	1.3	
	putting all other calls on hold, ME busy	1.4	
	disconnecting all other calls, ME busy	1.5	
	only if not currently busy on another call, ME busy	1.6	
	putting all other calls on hold, call hold is not allowed	1.7	
	Capability configuration	1.8	
	long dialing number string	1.9	
	long first alpha identifier	1.10	
	Called party subaddress	1.11	
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	Replace by new event list	1.2	
	Remove event	1.3	
	Remove Event on ME Power Cycle	1.4	
<b>PERFORM CARD APDU</b> <b>27.22.4.17</b>			98 class "a"
	Additional card inserted, Select MF and Get Response	1.1	
	Additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN	1.2	
	Additional card inserted, card powered off	1.3	
	No card inserted, card powered off	1.4	
	Invalid card reader identifier	1.5	
	Card reader detached	2.1	
<b>POWER OFF CARD</b> <b>27.22.4.18</b>			98 class "a"
	Additional card inserted	1.1	
	No card inserted	1.2	
	Detachable card reader	2.1	
<b>POWER ON CARD</b> <b>27.22.4.19</b>			98 class "a"

	Additional card inserted	1.1	
	No ATR	1.2	
	No card inserted	1.3	
	Detachable card reader	2.1	
<b>GET READER STATUS</b> <b>27.22.4.20</b>			98 class "a"
	Additional card inserted, card powered	1.1	
	Additional card inserted, card not powered	1.2	
	Additional card inserted, card not present	1.3	
	Detachable card reader	2.1	
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	Start timer 1 several times, get the current value of the timer and deactivate the timer successfully	1.1	
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	Try to get the current value of a timer which is not started: action in contradiction with the current timer state	1.4	
	Try to deactivate a timer which is not started: action in contradiction with the current timer state	1.5	
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	Replace idle mode text	1.2	
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	Competing information on ME display	1.4	
	ME powered cycled	1.5	
	Refresh with SIM initialisation	1.6	
	Large text string	1.7	
	icons	2.1, 2.2, 2.3, 2.4	
	UCS2 display	3.1	
<b>RUN AT COMMAND</b> <b>27.22.4.23</b>			98 class "b"
	No alpha Identifier	1.1	
	null data alpha identifier presented	1.2	
	alpha identifier presented	1.3	
	icons	2.1, 2.2, 2.3, 2.4, 2.5	
<b>SEND DTMF</b> <b>27.22.4.24</b>			98
	A call has been successfully established before the beginning of the test	1.1	
	alpha identifier	1.2, 1.3	
	Mobile is not in a speech call	1.4	
	Icons	2.1, 2.2, 2.3	

	UCS2 display	3.1	
<b>LANGUAGE NOTIFICATION</b> <b>27.22.4.25</b>			99
	Specific language notification	1.1	
	Non specific language notification	1.2	
<b>LAUNCH BROWSER</b> <b>27.22.4.26</b>			99 class "c"
No session already launched	Connect to the default URL	1.1	
	connect to the specified URL, alpha identifier length=0	1.2	
	Browser identity, no alpha identifier	1.3	
	one bearer specified and gateway/proxy identity	1.4	
	several bearers specified, gateway/proxy id specified	1.5	
Interaction with current session	use the existing browser, connect to the default URL	2.1	
	close the existing browser session and launch new browser session, connect to the default URL	2.2	
	if not already launched	2.3	
	UCS2 display	3.1	
	icons	4.1, 4.2	
<b>OPEN CHANNEL</b> <b>27.22.4.27</b>	TBD		99 class "e"
<b>CLOSE CHANNEL</b> <b>27.22.4.28</b>	TBD		99 class "e"
<b>RECEIVE DATA</b> <b>27.22.4.29</b>	TBD		99 class "e"



<b>SEND DATA</b> 27.22.4.30	TBD		99 class "e"
<b>GET CHANNEL STATUS</b> 27.22.4.31	TBD		99 class "e"
<b>DATA DOWNLOAD TO SIM</b> 27.22.5			96
<b>SMS-PP DATA DOWNLOAD</b> 27.22.5.1			96
	General data coding, SIM responds with '90 00'	1.1	
	SIM responds with '91 XX'	1.2	
	More time	1.3	
	8 bit alphabet	1.4	
	Data coding / message class	1.5, 1.6	
<b>SMS-CB DATA DOWNLOAD</b> 27.22.5.2			96
	ME does not display message	1.1	
	More time	1.2	
	ME displays message	1.3	
<b>CALL AND MO SMS CONTROL BY SIM</b> 27.22.6			97
	Cell identity in envelope call control	1.1 to 1.9, 2.1 to 2.4, 3.1 to 3.5 4.1 to 4.4	
	MO SMS control by SIM		
<b>EVENT DOWNLOAD</b> 27.22.7			97

27.22.7.1	MT call event		
27.22.7.2	call connected event		
27.22.7.3	call disconnected event		
27.22.7.4	location status event		
27.22.7.5	user activity event		
27.22.7.6	idle screen available event		
27.22.7.7	card reader status event		98 class "a"
27.22.7.7.1	Card reader status normal		98 class "a"
27.22.7.7.2	Detachable card reader		98 class "a"
27.22.7.8	language selection event		99
27.22.7.9	Browser termination event		99 class "c"
27.22.7.10	Data available event		99 class "e"
27.22.7.11	Channel status event		99 class "e"

### 3.2.3 Applicability to terminal equipment

The applicability to terminal equipment specified in GSM 11.10-1 [12] clause 3.2.3 shall apply, unless otherwise specified in the present clause.

### 3.3 Definitions

The definitions specified in GSM 11.10-1 [12] clause 3.3 shall apply, unless otherwise specified in the present clause.

### 3.4 Conventions for mathematical notations

The conventions for mathematical notations specified in GSM 11.10-1 [12] clause 3.4 shall apply, unless otherwise specified in the present clause.

### 3.5 Conventions on electrical terms

The conventions on electrical terms specified in GSM 11.10-1 [12] clause 3.5 shall apply, unless otherwise specified in the present clause.

## 3.6 Terms on test conditions

The terms on test conditions specified in GSM 11.10-1 [12] clause 3.6 shall apply, unless otherwise specified in the present clause.

---

## 4 Test Equipment

The test equipment is specified in GSM 11.10-1 [12] clause 4.

---

## 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.

A declaration by the apparatus supplier (Requirement Table as given in annex A) is used to determine whether an optional function/procedure has been implemented.

### 5.2 Test interfaces and facilities

The test interfaces and facilities specified in GSM 11.10-1 [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 GSM 11.10-1 [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 GSM 11.10-1 [12] clause 5.4 shall apply, unless otherwise specified in the present clause.

In addition, the apparatus supplier shall provide the following information:

- information with respect to SIM Application Toolkit: Requirement Table (RT).

### 5.5 Definitions of transmit and receive times

The definitions of transmit and receive times specified in GSM 11.10-1 [12] clause 5.5 shall apply, unless otherwise specified in the present clause.

---

## 6 Reference test methods

The reference test methods specified in GSM 11.10-1 [12] clause 6 shall apply, unless otherwise specified.

---

## 7 Implicit testing

For some GSM features conformance is not verified explicitly in this 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 sections provides, if necessary, a definition of the feature/function being tested and the applicability of the test to different MS (e.g. speech only, data only etc.).

##### 27.22.X.X. 1.2 Conformance requirement

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

##### 27.22.X.X. 1.3 Test Purpose

This section 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 section defines the initial conditions to be established before running each test sequence.

###### 27.22.X.X. 1.4.2 Procedure

This section 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 RESPONSE1.2.1
Command 1.2 .2
TERMINAL RESPONSE1.2.2 (same as TERMINAL RESPONSE1.2.1)
Command 1.2.3
TERMINAL RESPONSE1.2.3

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 COMMAND1.3 .1

TERMINAL RESPONSE1.3.1

**27.22.X.X.1.5 Test Requirement**

This section 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 RESPONSE2.2.1
Command 2.2 .2
TERMINAL RESPONSE2.2.2 (same as TERMINAL RESPONSE2.2.1)
Command 2.2.3
TERMINAL RESPONSE2.2.3

PROACTIVE COMMAND2.2 .1

PROACTIVE COMMAND2.2 .2

PROACTIVE COMMAND2.2 .3

Coding TERMINAL RESPONSE2.2.1, TERMINAL RESPONSE2.2.2

Coding TERMINAL RESPONSE2.2.3

**27.22.X.X.2.5 Test Requirement**

---

## 10 Generic call set up procedures

The generic call set up procedure specified in GSM 11.10-1 [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 GSM 11.10-1 [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 GSM 11.10-1 [12] clause 27 shall apply, unless otherwise specified in the present clause.

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.

### 27.1 - 27.21 Not used

### 27.22 SIM Application Toolkit

#### 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 this specification, 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.

#### Testing of optional functions and procedures

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

A declaration by the apparatus supplier (requirement table) is used to determine whether an optional function/procedure has been implemented.

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

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

For each item, the logical default values and the coding within the elementary files (EF) of the SIM follow.

NOTE1: Bx represents byte x of the coding

NOTE2: Unless otherwise defined, the coding values are hexadecimal.

The FDN, BDN and SMS-MO Control features are disabled.



## EFSST (SIM Service Table)

Logically: Abbreviated Dialling Numbers allocated and activated  
 Extension 1 allocated and activated  
 Fixed Dialling Numbers allocated and activated  
 Extension 2 allocated and activated  
 Cell Broadcast Message Identifier allocated and activated  
 Data download via SMS-CB allocated and activated  
 Data download via SMS-PP allocated and activated  
 Menu selection allocated and activated  
 Call control allocated and activated  
 Proactive SIM allocated and activated  
 Cell Broadcast Message Identifier Ranges allocated and activated  
 Barred Dialling Numbers allocated and activated  
 Extension4 allocated and activated

Coding:	B1 xx1111xx	B2 xxxxxxx	B3 xx1111xx	B4 xxxx11xx (binary)
	B5 xxxxxxx	B6 xxxxxxx	B7 11111111	B8 11111111 (binary)
	B9 xxxxxxx (binary)			

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: '0C 0C'

Coding: 0C 0C 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  
 Dialed 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  
 Dialed 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  
 Dialed number: 321  
 CCI: None  
 Ext4: None  
 Comparison Method Info: None

Coding:	B1	B2	B3	B4	...	B32	B33	B34	B35	B36	B37	...	B46
Record 1:	43	42	41	FF	...	FF	03	81	23	F1		...	FF

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

Logically:

Emergency Call Code 1: '1020'

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

EF<sub>SMSP</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										

## 27.22.1 Initialisation of SIM Application Toolkit Enabled SIM by SIM Application Toolkit Enabled ME (Profile Download)

### 27.22.1.1 Definition and applicability

The SIM - ME interface initialisation sequence allows the SIM to indicate to the ME that it is Toolkit enabled. A ME supporting Toolkit would then perform the Toolkit initialisation sequence.

This test applies to all MEs supporting SIM Application Toolkit.

### 27.22.1.2 Conformance requirement

The profile download instruction is sent by the ME to the SIM as part of the initialisation procedure. In this procedure the ME reads EF<sub>Phase</sub>. If the EF indicates that the SIM requires the ME to perform the profile download procedure, then the ME shall, after having performed the CHV1 verification procedure and before selecting EF<sub>IMSI</sub> or EF<sub>LOCI</sub>, send the TERMINAL PROFILE command to the SIM.

See GSM 11.11 [13] clause 11.2.1 and GSM 11.14 [15] clause 5.1.

### 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 personalisation, with the CHV1 enabled.

27.22.1.4.2 Procedure

Expected Sequence 1 (PROFILE DOWNLOAD)

Step	Direction	Message / Action	Comments
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	SELECT EF PHASE 1.2	
11	ME → SIM	READ BINARY (EF PHASE) 1.3	Expected PHASE = 03 returned by SIM
12	ME → SIM	TERMINAL PROFILE 1.4	PROFILE DOWNLOAD
13	SIM → ME	NORMAL ENDING OF COMMAND 1.1A	
14	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        FF        FF        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 FF FF FF

**NORMAL ENDING OF COMMAND : 1.1A**

Logically:

Coding:

SW1=90 SW2=00

**SELECT EF PHASE : 1.2**

Logically:

Coding:

APDU: CLA=A0 INS=A4 P1=00 P2=00 P3=02

Response DATA IN: 6F AE

SW1=9F SW2=0F

SW1= 9F , SW2= 0F

**READ BINARY (EF PHASE) : 1.3**

Logically:

Coding:

APDU: CLA=A0 INS=B0 P1=00 P2=00 P3=01

Response

DATA OUT: 03

SW1=90 SW2=00

**TERMINAL PROFILE : 1.4**

Logically:

Coding:

APDU: CLA=A0 INS=10 P1=00 P2=01 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 the 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

The TERMINAL PROFILE command send by the ME gives the SIM knowledge about the ME's SIM Application Toolkit capability so that the SIM can then limit its instruction range accordingly.

This test applies to all MEs supporting SIM Application Toolkit.

### 27.22.2.2 Conformance requirement

The TERMINAL PROFILE shall state the facilities relevant to SIM Application Toolkit that are supported by the ME. TS GSM 11.14 [15] clause 5.

### 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 personalisation.

##### 27.22.1.4.2 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'.

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).

### 27.22.3 Servicing of Proactive SIM Commands

#### 27.22.3.1 Definition and applicability

A ME supporting SIM Application Toolkit facilities shall support the FETCH and TERMINAL RESPONSE commands.

#### 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 GSM 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 REPOSE 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

This test is only applicable to ME's that support the DISPLAY TEXT proactive SIM facility.

###### 27.22.4.1.1.2 Conformance requirements

The ME shall support the DISPLAY TEXT Proactive SIM Command as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.1 (Display Text), clause 6.5.4 (Icon Identifier), clause 6.6.1 (Display Text), clause 6.8 (Terminal Response), clause 6.11, clause 12.6 (Commands details), clause 12.15 (Text String), clause 12.15.1/2/3 (Data Coding Scheme), clause 12.31 (Icon identifier).

###### 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	[Normal priority]
4	SIM → ME	PROACTIVE COMMAND : DISPLAY TEXT 1.2.1	
5	ME → USER	No change of the currently being used display.	[ME currently unable to process command - screen busy]
6	ME → SIM	TERMINAL RESPONSE : DISPLAY TEXT 1.2.1	
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	
2	ME → SIM	PENDING: DISPLAY TEXT 1.6.1	
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  6E  64  20  69  6E  73  74  72  75  63
           74  73  20  74  68  65  20  4D  45  20  74  6F
           20  64  69  73  70  6C  61  79  20  61  20  74
           65  78  74  20  6D  65  73  73  61  67  65  2E
           20  49  74  20  61  6C  6C  6F  77  73  20  74
           68  65  20  53  49  4D  20  74  6F  20  64  65
           66  69  6E  65  20  74  68  65  20  70  72  69
           6F  72  69  74  79  20  6F  66  20  74  68  61
           74  20  6D  65  73  73  61  67  65  2C  20  61
           6E  64  20  74  68  65  20  74  65  78  74  20
           73  74  72  69  6E  67  20  66  6F  72  6D  61
           74  2E  20  54  77  6F  20  74  79  70  65  73
           20  6F  66  20  70  72  69  6F
    
```

**TERMINAL RESPONSE : DISPLAY TEXT 1.6.1**

Logically:

Command details  
 Command number: 1  
 Command type: DISPLAY TEXT  
 Command qualifier: normal priority, wait for user to clear message  
 Device identities  
 Source device: 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 1.7 (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

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 :	[Command data not understood by ME (clause 6.5.4)]
5	SIM → ME	DISPLAY TEXT 1.9.1 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 01 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

#### 27.22.4.1.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 1 to 8 .

#### 27.22.4.1.2 DISPLAY TEXT (Support of “No response from user”)

##### 27.22.4.1.2.1 Definition and applicability

This test is only applicable to ME's that support the DISPLAY TEXT proactive SIM facility.

This test is only applicable to the ME supporting “No response from user” as defined in the GSM 11.14 [15] spec.

#### 27.22.4.1.2.2 Conformance requirement

The ME shall support the Proactive SIM: Display Text facility including the “No response from user” result value as defined in the following technical specifications :

TS GSM 11.14 [15] clause 6.1, 6.4.1

#### 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.

##### 27.22.4.1.2.4.1 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 seconds 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
----------	----	----	----	----	----	----	----	----	----	----	----	----

### 27.22.4.1.2.5 Test Requirement

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

### 27.22.4.1.3 DISPLAY TEXT (Display of extension text)

#### 27.22.4.1.3.1 Definition and applicability

This test is only applicable to ME's that support the DISPLAY TEXT proactive SIM facility.

Additionally this test is only applicable to ME's that support display of the extension text.

#### 27.22.4.1.3.2 Conformance requirement

#### 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)

Step	Direction	MESSAGE / Action	Comments
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 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 6.5.4). It allows the SIM to define the priority  
 of that message, and the text string format. Two types of priority are  
 defined:- display normal priority text and/"

Coding:

```
BER-TLV:  D0  81  FD  81  03  01  21  80  82  02  81  02
           8D  81  F1  04  54  68  69  73  20  63  6F  6D
           6D  61  6E  64  20  69  6E  73  74  72  75  63
```

74	73	20	74	68	65	20	4D	45	20	74	6F
20	64	69	73	70	6C	61	79	20	61	20	74
65	78	74	20	6D	65	73	73	61	67	65	2C
20	61	6E	64	2F	6F	72	20	61	6E	20	69
63	6F	6E	20	28	73	65	65	20	36	2E	35
2E	34	29	2E	20	49	74	20	61	6C	6C	6F
77	73	20	74	68	65	20	53	49	4D	20	74
6F	20	64	64	66	69	6E	65	20	74	68	65
20	70	72	69	6f	72	69	74	79	20	6F	66
20	74	68	61	74	20	6D	65	73	73	61	67
65	2C	20	61	6E	64	20	74	68	65	20	74
65	78	74	20	73	74	72	69	6E	67	20	66
6F	72	6D	61	74	2E	20	54	77	6F	20	74
79	70	65	73	20	6F	66	20	70	72	69	6F
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

### 27.22.4.1.3.5 Test Requirement

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

### 27.22.4.1.4 DISPLAY TEXT (Sustained text)

#### 27.22.4.1.4.1 Definition and applicability

This test is only applicable to ME's that support the DISPLAY TEXT proactive SIM facility.

Additionally this test is only applicable to ME's that support the sustained DISPLAY TEXT proactive SIM facility.

#### 27.22.4.1.4.2 Conformance requirement

#### 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.

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

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

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 1 to 4.

27.22.4.1.5 DISPLAY TEXT (Display of icons)

27.22.4.1.5.1 Definition and applicability

This test is only applicable to ME's that support the DISPLAY TEXT proactive SIM facility.

Additionally this test is only applicable to ME's that support display of icons.

27.22.4.1.5.2 Conformance requirement

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

See Annex C

27.22.4.1.5.4.2 Procedure

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

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 the BASIC-ICON	
5	USER → ME	Clear Message	
6	ME → SIM	TERMINAL RESPONSE : DISPLAY TEXT 5.1.1	[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 5.1.1**

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 5.2 (DISPLAY TEXT, display of colour icon, successful)

Step	Direction	MESSAGE / Action	Comments
7	SIM → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.2.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND : DISPLAY TEXT 5.2.1	[COLOUR-ICON]
10	ME → USER	Display the COLOUR-ICON	
11	USER → ME	Clear Message	
12	ME → SIM	TERMINAL RESPONSE : DISPLAY TEXT 5.2.1	[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: "Basic 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 5.2.1**

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 5.3 (DISPLAY TEXT, display of basic icon, not self explanatory)

Step	Direction	MESSAGE / Action	Comments
13	SIM → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.3.1	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : DISPLAY TEXT 5.3.1	[BASIC-ICON, not self-explanatory]
16	ME → USER	Display the BASIC-ICON Or Display "Basic Icon"	
17	USER → ME	Clear Message	
18	ME → SIM	TERMINAL RESPONSE : DISPLAY TEXT 5.3.1 Or TERMINAL RESPONSE : DISPLAY TEXT 5.3.2	[Command performed successfully]  or [Command performed successfully, but requested icon could not be displayed]
19	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 5.3.1**

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

## TERMINAL RESPONSE : DISPLAY TEXT 5.3.2

Logically:

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

### 27.22.4.1.5.5 Test Requirement

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

### 27.22.4.1.6 DISPLAY TEXT ( Display supported)

#### 27.22.4.1.6.1 Definition and applicability

This test is only applicable to ME's that support the DISPLAY TEXT proactive SIM facility.

Additionally this test is only applicable to ME's that support the UCS2 coding display facility, and the Cyrillic alphabet.

#### 27.22.4.1.6.2 Conformance requirement

The ME shall support the UCS2 facility as defined in the following technical specifications:

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]
4	ME → USER	Display " ЗДРАВСТВУЙТЕ "	["Hello" in russian]
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

#### 27.22.4.1.6.5 Test Requirement

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

### 27.22.4.2 GET INKEY

#### 27.22.4.2.1 GET INKEY(normal)

##### 27.22.4.2.1.1 Definition and applicability

This test is only applicable to ME's that support the GET INKEY proactive SIM facility.

##### 27.22.4.2.1.2 Conformance Requirement

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

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.2 (Get Inkey), clause 6.5.4 (Icon Identifier), clause 6.6.2 (Get Inkey), clause 6.8 (Terminal Response), clause 6.11, clause 12.6 (Commands details), clause 12.15 (Text String), clause 12.15.1/2/3 (Data Coding Scheme), clause 12.31 (Icon identifier).

##### 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: "+"

Coding:

BER-TLV: 81 03 01 22 80 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"	Text string coding in packed format
5	USER → ME	Enter the input "0" and completion	
6	ME → SIM	TERMINAL RESPONSE : GET INKEY 1.2.1	[command performed successfully]

**PROACTIVE COMMAND : GET INKEY 1.2.1**

Logically:

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

Coding:

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

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

Expected Sequence 1.4 (GET INKEY, abort)

Step	Direction	MESSAGE / Action	Comments
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 41 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 80 82 02 82 81 83 01 10

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

Step	Direction	MESSAGE / Action	Comments
1	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 "q"

Coding:

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

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

Step	Direction	MESSAGE / Action	Comments
1	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 AC 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 5E 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	53	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

“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 to 6.

#### 27.22.4.2.2 GET INKEY (No response from User)

##### 27.22.4.2.2.1 Definition and applicability

This test is only applicable to ME's that support the GET INKEY proactive SIM facility.

This test is only applicable to the ME supporting “No response from user” as defined in the GSM 11.14 [15] spec.

##### 27.22.4.2.2.2 Conformance Requirement

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.2, clause 6.6.2

##### 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 with the following exceptions.

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

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

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 seconds 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>”

Response length

Minimum length: 0  
 Maximum length: 10

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 1.

**27.22.4.2.3 GET INKEY (UCS2 format display)****27.22.4.2.3.1 Definition and applicability**

This test is only applicable to ME's that support the GET INKEY proactive SIM facility.

Additionally this test is only applicable to ME's that support the UCS2 coding display facility and the Cyrillic alphabet.

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**27.22.4.2.3.2 Conformance Requirement**

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.2, clause 6.6.2.

Additionally, the ME shall support the UCS2 facility 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 with the following exceptions.

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

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

## 27.22.4.2.3.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND	
2	ME → SIM	PENDING: GET INKEY 3.1.1 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  
 Text String: “+”

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 "ЗДРАВСТВУЙТЕЗДРАВСТВУ ЙТЕЗДРАВСТВУЙТЕЗДРАВСТ ВУЙТЕЗДРАВСТВУЙТЕЗДРАВ СТВУЙ"	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

**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:	“+”

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 1 to 2.

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

##### 27.22.4.2.4.1 Definition and applicability

This test is only applicable to ME's that support the GET INKEY proactive SIM facility.

Additionally this test is only applicable to ME's that support the UCS2 coding display facility, and the Cyrillic alphabet.

##### 27.22.4.2.4.2 Conformance Requirement

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.2, clause 6.6.2

The ME shall support the UCS2 facility 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 with the following exceptions.

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

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

27.22.4.2.4.4.2 Procedure

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

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

#### 27.22.4.2.5 GET INKEY (“Yes/No” Response)

##### 27.22.4.2.5.1 Definition and applicability

This test is only applicable to ME’s that support the GET INKEY proactive SIM facility.

Additionally this test only if ME’s support the GET INKEY proactive SIM facility and the “Yes/No” Response facility.

##### 27.22.4.2.5.2 Conformance Requirement

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.2, clause 6.6.227.22.4.2.5.3 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 with the following exceptions.

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

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

27.22.4.2.5.4.2 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”	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 Yes/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”

Coding:

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

**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: "1"

## 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 : same as 5.1.1****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: "0"

## 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 1.

## 27.22.4.2.6 GET INKEY (display of Icon)

## 27.22.4.2.6.1 Definition and applicability

This test is only applicable to ME's that support the GET INKEY proactive SIM facility.

Additionally this test only if ME's support the GET INKEY proactive SIM facility and the Icon facility.

## 27.22.4.2.6.2 Conformance Requirement

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.2, clause 6.6.2

## 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

See Annex C

## 27.22.4.2.6.4.2 Procedure

Expected Sequence 6.1 (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 Or Display the text string "<NO-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 Or TERMINAL RESPONSE : GET INKEY 6.1.1B	Command performed successfully]  Or [Command performed successfully but requested icon could not be displayed]

**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: "+"

Coding:

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

**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: "+"

Coding:

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

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

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>" and Display the BASIC-ICON for the prompt Or Display "<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 Or TERMINAL RESPONSE : GET INKEY 6.2.1B	[Command performed successfully]  Or [Command performed successfully but requested icon could not be displayed]

**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: "+"

Coding:

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

**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: "+"

Coding:

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

Expected Sequence 6.3 (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 Or Display "<NO-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 Or TERMINAL RESPONSE : GET INKEY 6.3.1B	[Command performed successfully]  Or [Command performed successfully but requested icon could not be displayed]

**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  1D  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: "+"

Coding:

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

**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: "+"

Coding:

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

Expected Sequence 6.4 (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 Or Display "<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 Or TERMINAL RESPONSE : GET INKEY 6.4.1B	[Command performed successfully]  Or [Command performed successfully but requested icon could not be displayed]

**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
	0F	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: "+"

## Coding:

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

**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: "+"

## 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 1 to 4.

**27.22.4.2.7 GET INKEY (Help Information)****27.22.4.2.7.1 Definition and applicability**

Additionally this test only if ME's support the GET INKEY proactive SIM facility and the Help Information facility.

**27.22.4.2.7.2 Conformance Requirement**

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.2, clause 6.6.2

**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 with the following exceptions.

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)

Step	Direction	MESSAGE / Action	Comments
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	ME → SIM	FETCH	
8	SIM → ME	PROACTIVE COMMAND : DISPLAY TEXT (help info)	
9	ME → SIM	TERMINAL RESPONSE : DISPLAY TEXT (help info)	
10	ME → SIM	FETCH	
11	SIM → ME	PROACTIVE COMMAND : GET INKEY 7.1.2	[digits only, help information available]
12	ME → USER	Display "Enter "+"	Repetition of get inkey
13	USER → ME	Enter the input "+" and completion	
14	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 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:	“+”

## Coding:

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

## 27.22.4.2.7.5 Test Requirement

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

## 27.22.4.3. GET INPUT

## 27.22.4.3.1 GET INPUT (normal)

## 27.22.4.3.1.1 Definition and applicability

This test is only applicable to ME's that support the GET INPUT proactive SIM facility.

## 27.22.4.3.1.2 Conformance Requirement

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

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.3 (Get Input), clause 6.5.4 (Icon Identifier), clause 6.6.3 (Get Input), clause 6.8 (Terminal Response), clause 6.11, clause 12.6 (Commands details), clause 12.15 (Text String), clause 12.15.1/2/3 (Data Coding Scheme), clause 12.13 (Default text), clause 12.31 (Icon identifier).

## 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 80 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  08  00  36  37  2A  23  2B  22

```

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	
6	ME	Echo " AbCdE"	
7	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	
6	ME	input not displayed	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	
2	ME → SIM	PENDING: GET INPUT 1.5.1	
3	SIM → ME	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
5	USER → ME	Completion without input	Text string coding in unpacked format
6	MMI ->USER	Display "invalid length"	
7	USER ->ME	Enter	
7	USER ->ME	"12345678901234567890" and completion	
6	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	6E	74	65	72	20	31	2E	2E	39
	2C	30	2E	2E	39	2C	30	28	31	29	91	02
	01	14										

**TERMINAL RESPONSE : GET INPUT 1.5.1**

## Logically:

Command details  
 Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, 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	
2	ME → SIM	PENDING: GET INPUT 1.6.1 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###**222222 222###**3333333333###**4 4444444444###**555555555 ###**6666666666###**7777 777777###**8888888888###** **9999999999###**00000000 00###"	Range of length expected is 160-160 Text string coding in unpacked format
5	USER → ME	Enter the input ****1111111111###**222222 222###**3333333333###**4 4444444444###**555555555 ###**6666666666###**7777 777777###**8888888888###** **9999999999###**00000000 00###"	
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###\*\*9999999999###\*\*0000000000###\*\*

Response length

Minimum length: 160  
 Maximum length: 160

Coding:

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

TERMINAL RESPONSE : GET INPUT 1.8.1

Logically:

Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, 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 1.9.1	[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 1.9.1**

## 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:	empty string

## Coding:

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

## 27.22.4.3.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequence 9.

## 27.22.4.3.2 GET INPUT (No response from User)

## 27.22.4.3.2.1 Definition and applicability

This test is only applicable to ME's that support the GET INPUT proactive SIM facility.

This test is only applicable to the ME supporting “No response from user” as defined in the GSM 11.14 [15] spec.

#### 27.22.4.3.2.2 Conformance Requirement

#### 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 with the following exceptions.

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

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

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	[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 seconds 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
----------	----	----	----	----	----	----	----	----	----	----	----	----

## 27.22.4.3.2.5 Test Requirement

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

## 27.22.4.3.3 GET INPUT (UCS2 format display)

## 27.22.4.3.3.1 Definition and applicability

This test is only applicable to ME's that support the GET INPUT proactive SIM facility.

Additionally this test is only applicable to ME's that support the UCS2 coding display facility, and the Cyrillic alphabet..

## 27.22.4.3.3.2 Conformance Requirement

Additionally the ME shall support the UCS2 facility 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 with the following exceptions.

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

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

## 27.22.4.3.3.4.2 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: 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: 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	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	91	02	05	05						

**TERMINAL RESPONSE : GET INPUT 3.1.1**

## 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: “HELLO”

## Coding:

BER-TLV:	81	03	01	23	00	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 ”ЗДРАВСТВУЙТЕЗДРАВСТ ВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВ УЙТЕ 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: 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: 16 bit data UCS2 alphabet format  
 Text:

”ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ  
 ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ  
 ЗДРАВСТВУЙТЕЗДРАВСТВУЙ”

Response length

Minimum length: 5  
 Maximum length: 5

Coding:

BER-TLV:	D0	81	99	81	03	01	23	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

**TERMINAL RESPONSE : GET INPUT 3.2.1**

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: "HELLO"

Coding:

BER-TLV:	81	03	01	23	00	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 sequence 1 to 2.

**27.22.4.3.4 GET INPUT (UCS2 format of entry)****27.22.4.3.4.1 Definition and applicability**

This test is only applicable to ME's that support the GET INPUT proactive SIM facility.

Additionally this test is only applicable to ME's that support the UCS2 coding display facility, and the Cyrillic alphabet.

**27.22.4.3.4.2 Conformance Requirement**

Additionally the ME shall support the UCS2 facility as defined in the following technical specifications:

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 with the following exceptions.

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

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

## 27.22.4.3.4.4.2 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 5-5 Text string coding in unpacked format
5	USER → ME	Enter the input "ЗДРАВСТВУЙТЕ "	"Hello" in Russian, coding in UCS2 format
6	ME → SIM	and completion 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: 5  
 Maximum length: 5

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  05

```

**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 Text string coding in unpacked format
5	USER → ME	Enter the input "ЗДРАВСТВУЙТЕЗДРАВСТ ВУЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВ УЙТЕ ЗДРАВСТВУЙТЕЗДРАВСТВУЙ and completion	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: 5

## 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	05							

**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

## 27.22.4.3.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequence 1 to 2.

## 27.22.4.3.5 GET INPUT (default text)

## 27.22.4.3.5.1 Definition and applicability

This test is only applicable to ME's that support the GET INPUT proactive SIM facility.

Additionally this test only if ME's support the GET INPUT proactive SIM facility and the default Text facility.

## 27.22.4.3.5.2 Conformance Requirement

## 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 with the following exceptions.

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

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

## 27.22.4.3.5.4.2 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	05	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 5-5 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  
 4###\*\*5555555555###\*\*6666666666###\*\*7777777777###\*\*888888  
 8888###\*\*9999999999###\*\*0000000000###"

Coding:

BER-TLV:	D0	1B	81	03	01	23	00	82	02	81	82	8D
	06	04	45	6E	74	65	72	20	91	02	A0	A0
	17	81	A0	04	2A	2A	2A	31	31	31	31	31
	31	31	31	31	23	23	23	2A	2A	2A	32	31
	32	32	32	32	32	32	32	32	32	23	23	23
	2A	2A	2A	33	33	33	33	33	33	33	33	33
	33	23	23	23	2A	2A	2A	34	34	34	34	34
	34	34	34	34	34	23	23	23	2A	2A	2A	35
	35	35	35	35	35	35	35	35	35	23	23	23
	2A	2A	2A	36	36	36	36	36	36	36	36	36
	36	23	23	23	2A	2A	2A	37	37	37	37	37
	37	37	37	37	37	23	23	23	2A	2A	2A	38
	38	38	38	38	38	38	38	38	38	23	23	23
	2A	2A	2A	39	39	39	39	39	39	39	39	39
	39	23	23	23	2A	2A	2A	30	30	30	30	30
	30	30	30	30	30	23	23	23				

**TERMINAL RESPONSE : GET INPUT 5.2.1**

Logically:

Command details

Command number: 1  
 Command type: GET INPUT  
 Command qualifier: digits (0-9, \*, # and +) only, SMS default alphabet, input in unpacked format, 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: unpacked, 8 bit data  
 Text:

```
****1111111111###**2222222222###**3333333333###**4444444444
4###**5555555555###**6666666666###**7777777777###**888888
8888###**9999999999###**0000000000###**
```

Coding:

BER-TLV:	81	03	01	23	00	82	02	82	81	83	01	00
	17	81	A0	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
	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	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 sequence 1 to 2.

27.22.4.3.6 GET INPUT (display of Icon)

27.22.4.3.6.1 Definition and applicability

Additionally this test only if ME's support the GET INPUT proactive SIM facility and the Icon facility.

27.22.4.3.6.2 Conformance Requirement

## 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

## 27.22.4.3.6.4.2 See Annex C

## 27.22.4.3.6.4.3 Procedure

Expected Sequence 6.1 (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 Or Display the text string "<NO-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 Or TERMINAL RESPONSE : GET INPUT 6.1.1B	Command performed successfully]  Or [Command performed successfully but requested icon could not be displayed]

**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: 10Icon 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	04	82	02	82	81	83	01	00
	8D	02	04	2B								

**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 6.2 (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 Or Display "<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 Or TERMINAL RESPONSE : GET INPUT 6.2.1B	[Command performed successfully]  Or [Command performed successfully but requested icon could not be displayed]

**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:BE	D0	1C	81	03	01	23	00	82	02	81	82	8D
R-TLV:	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
    
```

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

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 the COLOUR-ICON for the prompt Or Display "<NO-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 Or TERMINAL RESPONSE : GET INPUT 6.3.1B	[Command performed successfully]  Or [Command performed successfully but requested icon could not be displayed]

**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								

**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 6.4 (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 Or Display "<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 6.4.1A Or TERMINAL RESPONSE : GET INPUT 6.4.1B	[Command performed successfully]  Or [Command performed successfully but requested icon could not be displayed]

**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  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  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
```

#### 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
```

#### 27.22.4.3.7 GET INPUT (Help Information)

##### 27.22.4.3.7.1 Definition and applicability

Additionally this test only if ME's support the GET INPUT proactive SIM facility and the Help Information facility.

##### 27.22.4.3.7.2 Conformance Requirement

##### 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 the text string entered in the TERMINAL RESPONSE command sent to the SIM.

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 with the following exceptions.

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→USER	Display <i>Help information</i>	
6	ME → SIM	TERMINAL RESPONSE : GET INPUT 7.1.1	[command performed successfully]

### 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 13 00

## 27.22.4.3.7.5 Test Requirement

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

## 27.22.4.4 MORE TIME

## 27.22.4.4.1 Definition and applicability

This test is only applicable to ME's that support the MORE TIME proactive SIM facility.

## 27.22.4.4.2 Conformance Requirement

The ME shall conclude the command by sending TERMINAL RESPONSE (OK) to the SIM, as soon as possible after receiving the MORE TIME proactive SIM command.

TS GSM 11.14 [15] clause 6.4.4 (More time), clause 6.6.4. (More time), clause 5.2 (Terminal profile), clause 12.6 (Command details), clause 12.7 (Device identities)

## 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	[Command performed successfully]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : MORE TIME 1.1.1	
4	ME → SIM	TERMINAL RESPONSE : MORE TIME 1.1.1	
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.

## 27.22.4.5 PLAY TONE

### 27.22.4.5.1 Definition and applicability

This test is only applicable to ME's that support the PLAY TONE proactive SIM facility.

### 27.22.4.5.2 Conformance Requirement

If the ME is in, or is setting up a speech call, it shall superimpose the tone on top of the downlink audio (if any), for the duration given in the command. The progress or current state of the call shall not be affected in any way.

If the ME is not in or setting up a speech call, it shall route the audio to the external ringer, or other appropriate audio device, and play the tone for the duration given in the command.

For single tones, the value of the duration data object shall be ignored by the ME.

If the ME support for the specific tone requested is optional, and the ME does not support this particular tone, the ME shall inform the SIM using TERMINAL RESPONSE (Command beyond ME's capabilities).

The ME shall not generate any verbal indication or display any text or graphical indication about the normal meaning of this tone. If the SIM wishes to convey a meaning in text to the user, it shall do this through the alpha identifier data object.

TS GSM 11.14 [15] clause 6.1, clause 6.4.5 (Play Tone), clause 6.6.5. (Play Tone), clause 5.2 (Terminal Profile), clause 12.6 (Command details), clause 12.7 (Device identities), clause 12.2 (Alpha identifier), clause 12.16 (Tone), clause 12.8 (Duration)

### 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 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.

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 seconds	
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 seconds	
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 seconds	
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	
28	ME → USER	Display "No RP"  Play a standard supervisory radio path not available / call dropped tone for a duration of 5 seconds	
29	ME → SIM	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"  Play a standard supervisory error / special information tone for a duration of 5 seconds	
35	ME → SIM	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"  Play a standard supervisory call waiting tone for a duration of 5 seconds	
41	ME → SIM	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"  Play a standard supervisory ringing tone for duration of 5 seconds	
47	ME → SIM	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 → Network	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"  Superimpose the standard supervisory dial tone on the audio downlink for the duration of 5 seconds	
55	ME → SIM	TERMINAL RESPONSE : PLAY TONE 1.1.9	[Command performed successfully]
56	SIM → ME	PROACTIVE SIM SESSION ENDED	
57	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.10	
58	ME → SIM	FETCH	
59	SIM → ME	PROACTIVE COMMAND : PLAY TONE 1.1.10	
60	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"	
61	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]
62	SIM → ME	PROACTIVE SIM SESSION ENDED	
63	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.11	
64	ME → SIM	FETCH	
65	SIM → ME	PROACTIVE COMMAND : PLAY TONE 1.1.11	
66	ME → USER	Display "Beep"  Play a ME proprietary general beep	
67	ME → SIM	TERMINAL RESPONSE : PLAY TONE 1.1.11a Or TERMINAL RESPONSE : PLAY TONE 1.1.11b	[Command performed successfully] or [Command beyond ME's capabilities]
68	SIM → ME	PROACTIVE SIM SESSION ENDED	

69	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.12	
70	ME → SIM	FETCH	
71	SIM → ME	PROACTIVE COMMAND : PLAY TONE 1.1.12	
72	ME → USER	Display "Positive"  Play a ME proprietary positive acknowledgement tone	
73	ME → SIM	TERMINAL RESPONSE : PLAY TONE 1.1.12a or TERMINAL RESPONSE : PLAY TONE 1.1.12b	[Command performed successfully] or [Command beyond ME's capabilities]
74	SIM → ME	PROACTIVE SIM SESSION ENDED	
75	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.13	
76	ME → SIM	FETCH	
77	SIM → ME	PROACTIVE COMMAND : PLAY TONE 1.1.13	
78	ME → USER	Display "Negative"  Play a ME proprietary negative acknowledgement tone	
79	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]
80	SIM → ME	PROACTIVE SIM SESSION ENDED	
81	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.14	
82	ME → SIM	FETCH	
83	SIM → ME	PROACTIVE COMMAND : PLAY TONE 1.1.14	
84	ME → USER	Display "Quick"  Play a ME proprietary general beep	
85	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]
86	SIM → ME	PROACTIVE SIM SESSION ENDED	

87	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.15	
88	ME → SIM	FETCH	
89	SIM → ME	PROACTIVE COMMAND : PLAY TONE 1.1.15	
90	ME → USER	Display "<ABORT>"  Play a ME Error / Special information tone for 1 minute until user aborts this command	
91	ME → SIM	TERMINAL RESPONSE : PLAY TONE 1.1.15	[Proactive SIM session terminated by the user]
92	SIM → ME	PROACTIVE SIM SESSION ENDED	
93	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.16	
94	ME → SIM	FETCH	
95	SIM → ME	PROACTIVE COMMAND : PLAY TONE 1.1.16	[No alpha identifier, no tone tag, no duration tag]
96	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]
97	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]
98	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  71  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	6E	64	20	69	6E	73	74	72	75	63	74
	73	20	74	68	65	20	4D	45	20	74	6F	20
	70	6C	61	79	20	61	6E	20	61	75	64	69
	6F	20	74	6F	6E	65	2E	20	55	70	6F	6E
	20	72	65	63	65	69	76	69	6E	67	20	74
	68	69	73	20	63	6F	6D	6D	61	6E	64	2C
	20	74	68	65	20	4D	45	20	73	68	61	6C
	6C	20	63	68	65	63	6B	20	69	66	20	69
	74	20	69	73	20	63	75	72	72	65	6E	74
	6C	79	20	69	6E	2C	20	6F	72	20	69	6E
	20	74	68	65	20	70	72	6F	63	65	73	73
	20	6F	66	20	73	65	74	74	69	6E	67	20
	75	70	20	28	53	45	54	2D	55	50	20	6D
	65	73	73	61	67	65	20	73	65	6E	74	20
	74	6F	20	74	68	65	20	6E	65	74	77	6F
	72	6B	2C	20	73	65	65	20	47	53	4D	22
	30	34	2E	30	38	22	28	38	29	29	2C	20
	61	20	73	70	65	65	63	68	20	63	61	6C
	6C	2E	20	2D	20	49	66	20	74	68	65	20
	4D	45	20	49								

**PROACTIVE COMMAND : PLAY TONE 1.1.11**

## 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	3B	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 ..1.1.10b**

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 sequences

**27.22.4.6 POLL INTERVAL****27.22.4.6.1 Definition and applicability**

This test is only applicable to ME's that support the POLL INTERVAL proactive SIM facility.

**27.22.4.6.2 Conformance Requirement**

The SIM indicates the poll interval it requests from then onwards, and the ME responds through TERMINAL RESPONSE with the maximum interval that it will use.

If the ME does not support the poll interval requested by the SIM, then the ME shall respond with the closest interval to the one requested by the SIM, or, if the intervals the ME can offer are equidistant (higher and lower) from the SIM's request, the ME shall respond with the lower interval of the two. [This is not tested]

The ME shall support the Proactive SIM: POLL INTERVAL facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1, clause 6.4.6 (Poll interval), 6.6.6. (Poll interval), clause 5.2 (Terminal profile), clause 12.6 (Command details), clause 12.7 (Device identities), clause 12.8 (Duration)

**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]
5	ME	ME polls in intervals of 20 seconds	

**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	02	00	82	02	82	81	83	01	00
	82	02	01	14								

#### 27.22.4.6.5 Test Requirement

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

### 27.22.4.7 REFRESH

#### 27.22.4.7.1 REFRESH (normal)

##### 27.22.4.7.1.1 Definition and applicability

This test is only applicable to ME's that support the REFRESH proactive SIM facility.

##### 27.22.4.7.1.2 Conformance requirement

The ME shall support the Proactive SIM: Refresh facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.4.7.

##### 27.22.4.7.1.3 Test Purpose

To verify that the ME performs the SIM initialisation 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.

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 elementary files for the second SIM Simulator are coded as SIM Application Toolkit default with the following exceptions.

**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  
 Dialed 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  
 Dialed 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

## 27.22.4.7.1.4.2 Procedure

Expected Sequence 1.1 (REFRESH, SIM Initialisation)

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 Initialisation	[ME performs SIM initialisation]
6	ME → SIM	TERMINAL RESPONSE: REFRESH 1.1.1A Or TERMINAL RESPONSE: REFRESH 1.1.1B	
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 Initialisation

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 Initialisation

Device identities

Source device:	ME
Destination device:	SIM

Result

General Result: Command performed successfully

Coding:

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

**TERMINAL RESPONSE : REFRESH 1.1.1B**

Logically:

Command details

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

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 81 82 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	Invalidate EF IMSI, EF LOCI and EF ADN	[Restricted dialling feature is enabled]
5	SIM	Update EF FDN RECORD 1	[EF FDN record 1 updated to contain the dialling string "0123456789"]
6	ME → SIM	READ RECORD: EF FDN	
7	ME → SIM	TERMINAL RESPONSE: REFRESH 1.2.1A Or TERMINAL RESPONSE: REFRESH 1.2.1B	[normal ending]  [additional EFs read]
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
9	USER → ME	Call setup to "123"	
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 1.2.1**

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 81 82 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 81 82 83 01 03

Expected Sequence .13 (REFRESH, SIM Initialisation and File Change Notification)

Step	Direction	MESSAGE / Action	Comments
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	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 Initialisation 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 Initialisation 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 81 82 83 01 00

**TERMINAL RESPONSE : REFRESH 1.3.1B**

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialisation 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 81 82 83 01 03

Expected Sequence 1.4 (REFRESH, SIM Initialisation 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 Initialisation	[ME performs SIM initialisation]
7	ME → SIM	TERMINAL RESPONSE: REFRESH 1.4.1A	
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 1.4.1A**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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



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	[At same voltage]
6	ME → SIM	SIM Initialisation	
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

#### 27.22.4.7.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 1, 2, 3, 4 and 5.

#### 27.22.4.7.2 REFRESH (IMSI changing procedure)

##### 27.22.4.7.2.1 Definition and applicability

This test is only applicable to ME's that support the REFRESH proactive SIM facility.

##### 27.22.4.7.2.2 Conformance requirement

Additionally the ME shall support the SIM Initialisation procedure as defined in the following technical specifications:

TS GSM 11.11 [] clause 12.2.1

##### 27.22.4.7.2.3 Test Purpose

To verify that the ME performs the SIM initialisation 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.

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.

The elementary files for the second SIM Simulator are coded as SIM Application Toolkit default with the following exceptions.

27.22.4.7.2.4.2 Procedure

Expected Sequence 2.1 (REFRESH, SIM Initialisation 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	SIM	Update EF IMSI, EF LOCI and EF KC	[Update the contents of EF IMSI to "001010123456788", EF LOCI to not updated and EF KC to not valid]
5	ME	Invoke MM Restart Procedure	
6	ME → SIM	SIM INITIALISATION	[ME performs SIM initialisation; including reading EF IMSI, EF LOCI and EF KC]
7	ME → SIM	TERMINAL RESPONSE: REFRESH 2.1.1A Or TERMINAL RESPONSE: REFRESH 2.1.1B	[normal]  [additional EFs read]
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
9	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 Initialisation 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  20  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 Initialisation 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  81  82  83  01  00
    
```

**TERMINAL RESPONSE : REFRESH 2.1.1B**

Logically:

```

Command details
  Command number:      1
  Command type:       REFRESH
  Command qualifier:  SIM Initialisation 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  81  82  83  01  03
    
```

## Expected Sequence 2.2 (REFRESH, SIM Initialisation and Full File Change Notification)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 2.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: REFRESH 2.2.1	
4	SIM	Update EF IMSI	[Update the contents of EF IMSI to "001010123456787", -]
5	ME	Invoke MM Restart Procedure	
6	ME → SIM	SIM INITIALISATION	[ME performs SIM initialisation; including reading EF IMSI, EF LOCI and EF KC]
7	ME → SIM	TERMINAL RESPONSE: REFRESH 2.2.1	[normal]
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
9	ME → SS	IMSI ATTATCH	[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 Initialisation 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 2.2.1**

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialisation 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 81 82 83 01 00

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	SIM	Update EF IMSI	[Update the contents of EF IMSI to "001010123456786
5	ME → SIM	GSM Termination Procedure	
6	ME → SIM	GSM Activation Procedure	[At same voltage]
7	ME → SIM	SIM Initialisation	[ME performs SIM initialisation; including reading EF IMSI, EF LOCI and EF KC]
8	ME → SS	IMSI ATTATCH	[Send IMSI of "001010123456786" to System Simulator]

### 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

#### 27.22.4.7.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 1, 2 and 3.

### 27.22.4.8 SET UP MENU and ENVELOPE MENU SELECTION

#### 27.22.4.8.1 SET UP MENU and ENVELOPE MENU SELECTION (normal)

##### 27.22.4.8.1.1 Definition and applicability

This test is only applicable to ME's that support the SET UP MENU proactive SIM facility, and the Menu Selection facility

The SET UP MENU proactive SIM command 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. Each item comprises a short identifier (used to indicate the selection) and a text string. The included alpha identifier acts as a title for the list of menu items.

##### 27.22.4.8.1.2 Conformance Requirement

The ME shall support the Proactive SIM SET UP MENU facility as defined in the following technical specifications:

TS GSM 11.14 clause 5 (Profile download), 6.4.8 (SET UP MENU), 6.8 (Structure of TERMINAL RESPONSE), 6.11 (Proactive commands versus possible Terminal response), 12.6 (Command details), 13.4 (Type of Command and Next Action Indicator).

If the service "menu selection" is allocated and activated in the SIM Service Table, then the ME shall follow the procedure below:

When the ME receives a menu selection from one of the menu items defined by the "SET UP MENU" command issued previously by the SIM it shall pass the identifier of the selected menu item to the SIM using the ENVELOPE (MENU SELECTION) command.

The ME shall support the MENU SELECTION as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.4 (Menu Selection mechanism), 5.2 (Terminal Profile), clause 6.4.8 (Set Up Menu), clause 6.9, clause 8 (Menu Selection), clause 12.7 (Device Identities), clause 12.10 (Item Identifier).

#### 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	SS → 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
----------	----	----	----	----	----	----	----	----	----	----	----	----

**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    81    02    01    81    90    01    02

**ENVELOPE 1.2 : MENU SELECTION**

Logically:

Menu selection  
Device identities  
  Source device:           Keypad  
  Destination device:     SIM  
Item identifier            12

Coding:

BER-TLV:  D3    07    81    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)

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)	
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	
5	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".	
6	ME → USER	Display "Y"	
7	USER → ME	Select the item "Y"	
8	ME → SI M	Send the ENVELOPE 1.1.6 : 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"
Text string of item:	"Five"
Item	
Identifier of item:	"4A"
Text string of item:	"Six"
Item	
Identifier of item:	"49"
Text string of item:	"Seven"
Item	
Identifier of item:	"48"
Text string of item:	"Eight"
Item	
Identifier of item:	"47"
Text string of item:	"Nine"

Item	Identifier of item:	"46"
	Text string of item:	"Alpha"
Item	Identifier of item:	"45"
	Text string of item:	"Bravo"
Item	Identifier of item:	"44"
	Text string of item:	"Charlie"
Item	Identifier of item:	"43"
	Text string of item:	"Delta"
Item	Identifier of item:	"42"
	Text string of item:	"Echo"
Item	Identifier of item:	"41"
	Text string of item:	"Fox-trot"
Item	Identifier of item:	"40"
	Text string of item:	"Black"
Item	Identifier of item:	"3F"
	Text string of item:	"Brown"
Item	Identifier of item:	"3E"
	Text string of item:	"Red"
Item	Identifier of item:	"3D"
	Text string of item:	"Orange"
Item	Identifier of item:	"3C"
	Text string of item:	"Yellow"
Item	Identifier of item:	"3B"
	Text string of item:	"Green"
Item	Identifier of item:	"3A"
	Text string of item:	"Blue"
Item	Identifier of item:	"39"
	Text string of item:	"Violet"
Item	Identifier of item:	"38"
	Text string of item:	"Grey"
Item	Identifier of item:	"37"
	Text string of item:	"White"
Item	Identifier of item:	"36"
	Text string of item:	"milli"
Item	Identifier of item:	"35"
	Text string of item:	"micro"
Item	Identifier of item:	"34"
	Text string of item:	"nano"
Item	Identifier of item:	"33"
	Text string of item:	"pico"

## Coding:

BER-TLV:	D0	81	FC	81	03	01	25	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	31
	8F	05	50	5A	65	72	6F	8F	04	4F	4F	6E
	65	8F	04	4E	54	77	6F	8F	06	4D	54	68
	72	65	65	8F	05	4C	46	6F	75	72	8F	05
	4B	46	69	76	65	8F	04	4A	53	69	78	8F
	06	49	53	65	76	65	6E	8F	06	48	45	69
	67	68	74	8F	05	47	4E	69	6E	65	8F	06
	46	41	6C	70	68	61	8F	06	45	42	72	61
	76	6F	8F	08	44	43	68	61	72	6C	69	65
	8F	06	43	44	65	6C	74	61	8F	05	42	45
	63	68	6F	8F	09	41	46	6F	78	2D	74	72
	6F	74	8F	06	40	42	6C	61	63	6B	8F	06
	3F	42	72	6F	77	6E	8F	04	3E	52	65	64
	8F	07	3D	4F	72	61	6E	67	65	8F	07	3C
	59	65	6C	6C	6F	77	8F	06	3B	47	72	65
	65	6E	8F	05	3A	42	6C	75	65	8F	07	39
	56	69	6F	6C	65	74	8F	05	38	47	72	65
	79	8F	06	37	57	68	69	74	65	8F	06	36
	6D	69	6C	6C	69	8F	06	35	6D	69	63	72
	6F	8F	05	34	6E	61	6E	6F	8F	05	33	70
	69	63	6F									

**PROACTIVE COMMAND : SET UP MENU 1.2.2**

Logically:

Command details

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

Device identities

Source device: 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"  
 Text string of item: "5 Barring Of All Outgoing Calls"

Item

Identifier of item: "FA"  
 Text string of item: "6 Barring Of All Outgoing Int Calls"

Item

Identifier of item: "F9"  
 Text string of item: "7 CLI Presentation"

Coding:

BER-TLV:	D0	81	F3	81	03	01	25	00	82	02	81	82
	85	0A	4C	61	72	67	65	4D	65	6E	75	32
	8F	1D	FF	31	20	43	61	6C	6C	20	46	6F
	72	77	61	72	64	20	55	6E	63	6F	6E	64
	69	74	69	6F	6E	61	6C	8F	1C	FE	32	20
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	20	4F	6E	20	55	73	65	72	20	42	75	73
	79	8F	1B	FD	33	20	43	61	6C	6C	20	46
	6F	72	77	61	72	64	20	4F	6E	20	4E	6F
	20	52	65	70	6C	79	8F	25	FC	34	20	43
	61	6C	6C	20	46	6F	72	77	61	72	64	20
	4F	6E	20	55	73	65	72	20	4E	6F	74	20
	52	65	61	63	68	61	62	6C	65	8F	20	FB
	35	20	42	61	72	72	69	6E	67	20	4F	66
	20	41	6C	6C	20	4F	75	74	67	6F	69	6E
	67	20	43	61	6C	6C	73	8F	24	FA	36	20
	42	61	72	72	69	6E	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	20	43	61	6C	6C	73	8F	13	F9
	37	20	43	4C	49	20	50	72	65	73	65	6E
	74	61	74	69	6F	6E						



**PROACTIVE COMMAND : SET UP MENU 1.2.3**

Logically:

Command details

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

Device identities

Source device: 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

**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 81 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 81 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 81 02 01 81 90 01 01

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 and in expected sequence 2.

## 27.22.4.8.2 SET UP MENU (help request support)

## 27.22.4.8.2.1 Definition and applicability

This test is only applicable to ME's that support the SET UP MENU proactive SIM facility, and the Menu Selection facility

## 27.22.4.8.2.2 Conformance Requirement

Requirements are the same as in 27.22.4.8.1.1, with an additional one: GSM 11.14 clause 12.21 (Help Request).

#### 27.22.4.8.2.3 Test Purpose

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.

#### 27.22.4.8.2.4 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	SS → 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

### 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 81 02 01 81 90 01 02 15 00

#### 27.22.4.8.3 SET UP MENU (next action support)

##### 27.22.4.8.3.1 Definition and applicability

This test is only applicable to ME's that support the SET UP MENU proactive SIM facility, and the Next Action Indicator.

The SIM may include an items next action indicator data object located at the end of the list of items. The inclusion of the items next action indicator is to allow the ME to indicate to the user the consequences of performing the selection of an item.

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 27.22.4.8.1.1, with an additional one: GSM 11.14 clause 12.24 (Items Next Action Indicator).

#### 27.22.4.8.3.3 Test Purpose

To verify that when the next action indicator is supported.

#### 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	SS → 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"	
9	USER → ME	Navigate in the items, then select "Item 2".	Check that next action indicators should appear.

### 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

#### 27.22.4.8.4 SET UP MENU (display of icons)

##### 27.22.4.8.4.1 Definition and applicability

This test is only applicable to ME's that support the SET UP MENU proactive SIM facility.

Additionally this test is only applicable to ME's that support display of icons.

##### 27.22.4.8.4.2 Conformance Requirement

Requirements are the same as in 27.22.4.8.1.1, with an additional one: GSM 11.14 clause 6.5.4, 12.31 and 12.32.

##### 27.22.4.8.4.3 Test Purpose

To verify that icons are displayed with the command Set Up Menu in the Alpha Identifier and Items Data Objects.

##### 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 4.1 (SET UP MENU, BASIC ICON NOT SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, successful)

Step	Direction	MESSAGE / Action	Comments
1	SS → 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]
		or	[Command Performed successfully but requested icon could not be displayed]
6	SIM → ME	SET UP MENU 4.1.1B 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.

### 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 3 EF (IMG), record 4 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  03
           04  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

**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

Expected Sequence 4.2 (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, successful)

Step	Direction	MESSAGE / Action	Comments
1	SS → 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	or SET UP MENU 4.2.1B PROACTIVE SIM SESSION ENDED	[Command Performed successfully but requested icon could not be displayed]
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.

### 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 3 EF (IMG), record 4 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  03
           04  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

**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

**27.22.4.8.5 SET UP MENU (soft keys support)****27.22.4.8.5.1 Definition and applicability**

This test is only applicable to ME's that support the SET UP MENU proactive SIM facility, and letter class "d" .

**27.22.4.8.5.2 Conformance Requirement**

Requirements are the same as in 27.22.4.8.1.1.

**27.22.4.8.5.3 Test Purpose**

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.

#### 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	SS → 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

### 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: « 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

## 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

This test is only applicable to ME's that support the SELECT ITEM proactive SIM facility.

The SELECT ITEM proactive SIM command 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 is intended to act as a title for the list of items.

The alpha identifier included by the SIM shall be used by the ME as the title for the list of items.

#### 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 GSM 11.14 [15] clause 5 (Profile Download), 6.4.9 (Proactive SIM commands and procedures, SELECT ITEM), 6.6.8 (Structure of proactive SIM commands, SELECT ITEM), 6.8 (Structure of TERMINAL RESPONSE), 12.6 (Command details), 13.4 (Type of Command and Next Action Indicator), 14 (Allowed Type of command and Device identity combinations).

#### 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.

The ability of the ME to send the TERMINAL RESPONSE with "No response from user" result value cannot be tested as the length of time to wait is undefined in GSM 11.14 [15].

#### 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)

Step	Direction	MESSAGE / Action	Comments
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
7	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.2.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.2.1	
10	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"	
11	USER → ME	Select item "Orange".	
12	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)

Step	Direction	MESSAGE / Action	Comments
13	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.3.1	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.3.1	
16	ME → USER	Present the items of " Call Forwarding Unconditional", "Call Forward On User Busy", "Call Forward On No Reply", "Call Forward On User Not Reachable", "Barring Of All Outgoing Calls", "Barring Of All Outgoing International Calls" and "CLI Presentation" under the header of " LargeMenu2	
17	USER → ME	Select item "Barring Of All Outgoing Calls".	
18	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.3.1	Command performed successfully
19	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	6E	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	65	72	6E	61	74	69	6F	6E	61
	6C	20	43	61	6C	6C	73	8F	11	F9	43	4C
	49	20	50	72	65	73	65	6E	74	61	74	69
	6F	6E										

**TERMINAL RESPONSE : SELECT ITEM 1.3.1**

Logically:

Command details

Command number: 1  
Command type: SELECT ITEM  
Command qualifier: "00"

Device identities

Source device: 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	
20	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.4.1	[	
21	ME → SIM	FETCH		
22	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.4.1		
23	ME → USER	Present the items of "One" and "Two" under the header of "Select Item".		
24	USER → ME	Indicate to go backwards in the proactive SIM application session.		
25	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.4.1		Backward move in the proactive SIM application session requested by user
26	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.4.2		
27	ME → SIM	FETCH		
28	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.4.2		
29	ME → USER	Present the items of "One" and "Two" under the header of "Select Item".		
30	USER → ME	Indicate to end the proactive SIM application and return the ME to normal operation.		
31	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.4.2		Proactive SIM application terminated by the user
32	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 1.4.1**

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: 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 1.4.2**

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

Expected Sequence 1.5 (SELECT ITEM, "Y", successful)

Step	Direction	MESSAGE / Action	Comments
33	SIM → ME	PROACTIVE COMMAND	
		PENDING: SELECT ITEM 1.5.1	
34	ME → SIM	FETCH	
35	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.5.1	
36	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".	
37	USER → ME	Select item "Y"	
38	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.5.1	Command performed successfully
39	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
40	SIM → ME	PROACTIVE COMMAND	
41	ME → SIM	PENDING: SELECT ITEM 1.6.1	
42	SIM → ME	FETCH	
43	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.6.1	
43	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 "0LargeMenu".	
44	USER → ME	Select item "5 Barring Of All Outgoing Calls".	
45	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: "0LargeMenu"

Item  
 Identifier of item: "FF"  
 Text string of item: "1 Call Forward Unconditional"

Item  
 Identifier of item: "FE"  
 Text string of item: "2 Call Forward On User Busy"

Item  
 Identifier of item: "FD"  
 Text string of item: "3 Call Forward On No Reply"

Item  
 Identifier of item: "FC"  
 Text string of item: "4 Call Forward On User Not Reachable"

Item  
 Identifier of item: "FB"  
 Text string of item: "5 Barring Of All Outgoing Calls"

Item  
 Identifier of item: "FA"  
 Text string of item: "6 Barring Of All Outgoing Int Calls"

Item  
 Identifier of item: "F9"  
 Text string of item: "7 CLI Presentation"

Coding:

BER-TLV:	D0	81	F3	81	03	01	24	00	82	02	81	82
	85	0A	30	4C	61	72	67	65	4D	65	6E	75
	8F	1D	FF	31	20	43	61	6C	6C	20	46	6F
	72	77	61	72	64	20	55	6E	63	6F	6E	64
	69	74	69	6F	6E	61	6C	8F	1C	FE	32	20
	43	61	6C	6C	20	46	6F	72	77	61	72	64
	20	4F	6E	20	55	73	65	72	20	42	75	73
	79	8F	1B	FD	33	20	43	61	6C	6C	20	46
	6F	72	77	61	72	64	20	4F	6E	20	4E	6F
	20	52	65	70	6C	79	8F	25	FC	34	20	43
	61	6C	6C	20	46	6F	72	77	61	72	64	20
	4F	6E	20	55	73	65	72	20	4E	6F	74	20
	52	65	61	63	68	61	62	6C	65	8F	20	FB
	35	20	42	61	72	72	69	6E	67	20	4F	66
	20	41	6C	6C	20	4F	75	74	67	6F	69	6E
	67	20	43	61	6C	6C	73	8F	24	FA	36	20
	42	61	72	72	69	6E	67	20	4F	66	20	41
	6C	6C	20	4F	75	74	67	6F	69	6E	67	20
	49	6E	74	20	43	61	6C	6C	73	8F	13	F9
	37	20	43	4C	49	20	50	72	65	73	65	6E
	74	61	74	69	6F	6E						

**TERMINAL RESPONSE : SELECT ITEM 1.5**

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

This test is only applicable to ME's that support the SELECT ITEM proactive SIM facility.

The SIM may include an items next action indicator data object located at the end of the list of items. The inclusion of the items next action indicator is to allow the ME to indicate to the user the consequences of performing the selection of an item.

#### 27.22.4.9.2.2 Conformance Requirement

Same as 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	
2	ME → SIM	PENDING: SELECT ITEM 2.1.1	
3	SIM → ME	FETCH	
4	ME → USER	PROACTIVE COMMAND: SELECT ITEM 2.1.1 Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select". It presents also the following next action indicators: Send SM, Set Up Call, Provide Local Info.	
5	USER → ME	Navigate in the items, then select "Item 2". Check that next action indicators appear.	
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									

**27.22.4.9.3 SELECT ITEM (default item support)****27.22.4.9.3.1 Definition and applicability**

This test is only applicable to ME's that support the SELECT ITEM proactive SIM facility.

The SIM may supply with the list, if applicable, indication of the default item, e.g. the previously selected item.

**27.22.4.9.3.2 Conformance Requirement**

Same as 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)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND	
2	ME → SIM	PENDING: SELECT ITEM 3.1.1	
3	SIM → ME	FETCH	
4	ME → USER	PROACTIVE COMMAND: SELECT ITEM 3.1.1 Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".	Check 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  49  74  65  6D  20  32  8F  07  03
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33  90  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									

**27.22.4.9.4 SELECT ITEM (help request support)****27.22.4.9.4.1 Definition and applicability**

This test is only applicable to ME's that support the SELECT ITEM proactive SIM facility.

If help information is available for the command and if the user has indicated the need to get help information, the ME shall send a TERMINAL RESPONSE with "help information required by the user" result value to the SIM with the identifier of the item for which the user is requiring help information.

**27.22.4.9.4.2 Conformance Requirement**

Same as 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									

**27.22.4.9.5 SELECT ITEM (icons support)****27.22.4.9.5.1 Definition and applicability**

This test is only applicable to ME's that support the SELECT ITEM proactive SIM facility.

Optionally the SIM may include an alpha identifier, and an icon identifier. These are intended to act as a title for the list of items.

If an icon is provided by the SIM, the icon(s) indicated in the command may be used by the ME in addition to, or instead of the alpha identifier, as indicated with the icon qualifier (see clause 6.5.4).

**27.22.4.9.5.2 Conformance Requirement**

Same as 27.22.4.9.1.2, and GSM 11.14 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 5.1 (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 Or 5.1.1B	[command performed successfully] or [command performed successfully but requested icon could not be displayed]

### 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 3 in EF<sub>(IMG)</sub>, record 4 in EF<sub>(IMG)</sub>, record 5 in EF<sub>(IMG)</sub>

Coding:

```

BER-TLV:  D0  3E  81  03  01  24  00  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  01  49  74  65  6D  20  31
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33  9E  02  01  01  9F  04
           01  03  04  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
    
```

**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 5.2 (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 Or 5.2.1B	[command performed successfully] or [command performed successfully but requested icon could not be displayed]

### 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 3 in EF<sub>(IMG)</sub>, record 4 in EF<sub>(IMG)</sub>, record 5 in EF<sub>(IMG)</sub>

Coding:

```

BER-TLV:  D0  3E  81  03  01  24  00  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  01  49  74  65  6D  20  31
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33  9E  02  00  01  9F  04
           00  03  04  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
```

**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
```

**27.22.4.9.6 SELECT ITEM (presentation style)****27.22.4.9.6.1 Definition and applicability**

This test is only applicable to ME's that support the SELECT ITEM proactive SIM facility.

The presentation style is left as an implementation decision to the ME manufacturer. However, the ME shall present the menu items in the order given by the SIM, unless instructed otherwise by the user, or when this would be inappropriate for the presentation style of the ME.

#### 27.22.4.9.6.2 Conformance Requirement

Same as 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	
2	ME → SIM	PENDING: SELECT ITEM 6.1.1	
3	SIM → ME	FETCH	
4	ME → USER	PROACTIVE COMMAND: SELECT ITEM 6.1.1 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									

**27.22.4.9.7 SELECT ITEM (soft keys support)****27.22.4.9.7.1 Definition and applicability**

This test is only applicable to ME's that support the SELECT ITEM proactive SIM facility.

If "selection using soft key preferred" is indicated in the command details and "soft key for SELECT ITEM" is supported by the ME and the number of icons items does not exceed the number of soft keys available, then the ME shall display those icons as soft keys.

**27.22.4.9.7.2 Conformance Requirement**

Same as 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									

**27.22.4.10 SEND SHORT MESSAGE****27.22.4.10.1 SEND SHORT MESSAGE (normal)****27.22.4.10.1.1 Definition and applicability**

This test is only applicable to ME's that support the SEND SHORT MESSAGE proactive SIM facility.

**27.22.4.10.1.2 Conformance requirement**

The ME shall support the Proactive SIM: SEND SHORT MESSAGE facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1, clause 6.4.10 (Send Short Message), clause 6.6.9 (Send Short Message), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.2 (Alpha Identifier), clause 12.1 (Address), clause 12.13 (SMS-TPDU), clause 12.31 (Icon Identifier), clause 5.2 (Terminal Profile) 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 system Simulator and the SIM Simulator.

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 "Test Message"	
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	"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: 01 00 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

**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"	[Alpha Identifier]
5	ME → SS	Send SMS-PP "Send SM"	
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	"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	7
TP-UD	"Send SM"

Coding:	01	00	09	91	10	32	54	76	F8	40	F4	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
----------	----	----	----	----	----	----	----	----	----	----	----	----

**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"	[Alpha Identifier]
5	ME → SS	Send SMS-PP "Short Message"	
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													
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:	01	00	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

Coding:

BER-TLV:	81	03	01	13	00	82	02	82	81	83	01	00
----------	----	----	----	----	----	----	----	----	----	----	----	----



**Expected Sequence 1.4 (SEND SHORT MESSAGE, packing required, SMS default alphabet, message of 160 bytes, 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, SMS default alphabet]
4	ME → USER	Display " The address data object holds the RP_Destination_Address "	[Alpha Identifier]
5	ME → SS	Send SMS-PP "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"	[message of 160 bytes]
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 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 FD 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	11	44	65	73	74	69	6E	61	74	69
6F	6E	11	41	64	64	72	65	73	73	86	09
91	11	22	33	44	55	66	77	F8	8B	81	AC
01	00	09	91	10	32	54	76	F8	40	F4	A0
54	77	6F	20	74	79	70	65	73	20	61	72
65	20	64	65	66	69	6E	65	64	3A	20	2D
20	41	20	73	68	6F	72	74	20	6D	65	73
73	61	67	65	20	74	6F	20	62	65	20	73
65	6E	74	20	74	6F	20	74	68	65	20	6E
65	74	77	6F	72	6B	20	69	6E	20	61	6E
20	53	4D	53	2D	53	55	42	4D	49	54	20
6D	65	73	73	61	67	65	2C	20	6F	72	20
61	6E	20	53	4D	53	2D	43	4F	4D	4D	41
4E	44	20	6D	65	73	73	61	67	65	2C	20
77	68	65	72	65	20	74	68	65	20	75	73
65	72	20	64	61	74	61	20	63	61	6E	20
62	65	20	70	61	73	73	65	64	20	74	72
61	6E	73	70								

## SMS-PP (SEND SHORT MESSAGE) Message 1.4

Logically:

SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"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:	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	2E	83	E6	65	37	1D	44	7F
	83	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28
	ED	06	85	DD	A0	69	73	DA	9A	56	85	CD
	24	15	D4	2E	CF	E7	E1	73	99	05	7A	CB
	41	61	37	68	DA	9C	B6	86	CF	66	33	E8
	24	82	DA	E5	F9	3C	7C	2E	B3	40	77	74
	59	5E	06	D1	D1	65	50	7D	5E	96	83	C8
	61	7A	18	34	0E	BB	41	E2	32	08	1E	9E
	CF	CB	64	10	5D	1E	76	CF	E1			

**TERMINAL RESPONSE : SEND SHORT MESSAGE 1.4.1**

Logically:

Command details

Command number: 1  
Command type: SEND SHORT MESSAGE  
Command qualifier: packing 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 1.5 (SEND SHORT MESSAGE, packing not required, SMS default alphabet, message of 160 bytes, 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 "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"	[message of 160 bytes]
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	2E	83	E6	65	37	1D	44	7F	83
	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28	ED
	06	85	DD	A0	69	73	DA	9A	56	85	CD	24
	15	D4	2E	CF	E7	E1	73	99	05	7A	CB	41
	61	37	68	DA	9C	B6	86	CF	66	33	E8	24
	82	DA	E5	F9	3C	7C	2E	B3	40	77	74	59
	5E	06	D1	D1	65	50	7D	5E	96	83	C8	61
	7A	18	34	0E	BB	41	E2	32	08	1E	9E	CF
	CB	64	10	5D	1E	76	CF	E1				

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 "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:	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	2E	83	E6	65	37	1D	44	7F	83
	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28	ED
	06	85	DD	A0	69	73	DA	9A	56	85	CD	24
	15	D4	2E	CF	E7	E1	73	99	05	7A	CB	41
	61	37	68	DA	9C	B6	86	CF	66	33	E8	24
	82	DA	E5	F9	3C	7C	2E	B3	40	77	74	59
	5E	06	D1	D1	65	50	7D	5E	96	83	C8	61
	7A	18	34	0E	BB	41	E2	32	08	1E	9E	CF
	CB	64	10	5D	1E	76	CF	E1				

**TERMINAL RESPONSE : SEND SHORT MESSAGE 1.5.1**

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
----------	----	----	----	----	----	----	----	----	----	----	----	----

**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 " "	[space]
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	09	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	"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: 01 00 09 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	[Alpha identifier length '00']
5	ME → SS	Send SMS-PP "Test Message"	
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"

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
	00	86	09	91	11	22	33	44	55	66	77	F8
	8B	18	01	00	09	91	10	32	54	76	F8	40
	F4	0C	54	65	73	74	20	4D	65	73	73	61
	67	65										

**SMS-PP (SEND SHORT MESSAGE) Message 1.7**

Logically:

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "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: 01 00 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 "Test Message"	
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	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

BER-TLV:	D0	2E	81	03	01	13	00	82	02	81	83	86
	09	91	11	22	33	44	55	66	77	F8	8B	18
	01	00	09	91	10	32	54	76	F8	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

**SMS-PP (SEND SHORT MESSAGE) Message 1.8**

Logically:

SMS TPDU	
TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"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:	01	00	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 to 8.

#### 27.22.4.10.2 SEND SHORT MESSAGE (UCS2 support)

##### 27.22.4.10.2.1 Definition and applicability

This test is only applicable to ME's that support the SEND SHORT MESSAGE proactive SIM facility.

Additionally this test is only applicable to ME that support USC2 coding format facility and the Cyrillic alphabet

##### 27.22.4.10.2.2 Conformance requirement

The ME shall support the Proactive SIM: SEND SHORT MESSAGE facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1, clause 6.4.10 (Send Short Message), clause 6.6.9 (Send Short Message), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.2 (Alpha Identifier), clause 12.1 (Address), clause 12.13 (SMS-TPDU), clause 12.31 (Icon Identifier), clause 5.2 (Terminal Profile)

Additionally, the ME shall support the UCS2 facility 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 system Simulator and the SIM Simulator.

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))**

Step	Direction	MESSAGE / Action	Comments
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 "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	4D	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	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												
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:	01	00	09	91	10	32	54	76	F8	40	08	18
	04	17	04	14	04	20	04	10	04	12	04	21
	04	22	04	12	04	23	04	19	04	22	04	15

**TERMINAL RESPONSE : SEND SHORT MESSAGE 2.2.1**

Logically:

Command details	
Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required
Device identities	
Source device:	ME
Destination device:	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 sequences 1.

## 27.22.4.10.3 SEND SHORT MESSAGE (icon support)

## 27.22.4.10.3.1 Definition and applicability

This test is only applicable to ME's that support the SEND SHORT MESSAGE proactive SIM facility.

Additionally this test is only applicable to ME that support icons.



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

See Annex C

27.22.4.10.3.4.2 Procedure

**Expected Sequence 3.1 (SEND SHORT MESSAGE, basic icon self-explanatory, packing not required, 8-bit data)**

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	Display BASIC-ICON	[basic icon self-explanatory]
5	ME → SS	Send SMS-PP "Test Message "	
6	SS → ME	SMS RP-ACK	
7	ME → SIM	TERMINAL RESPONSE : SEND SHORT MESSAGE 3.1.1	[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  
 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	32	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	F4	40	F4	=C
	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 "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:            01    00    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 3.1.1**

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 3.2 (SEND SHORT MESSAGE, basic icon non-self-explanatory, packing not required, 8-bit data)**

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 BASIC-ICON and "Send SM"	[basic icon non-self-explanatory]
5	ME → SS	Send SMS-PP " Test Message "	
6	SS → ME	SMS RP-ACK	
7	ME → SIM	TERMINAL RESPONSE : SEND SHORT MESSAGE 3.2.1a OR TERMINAL RESPONSE : SEND SHORT MESSAGE 3.2.1b	[Command performed successfully]  [Command performed successfully, but requested icon could not be displayed]

**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  
 Address "Send SM"  
 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 "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345678"

TP-PID Short message type 0

TP-DCS												
Message coding												
Message class												
TP-UDL												
TP-UD												
Coding:	01	00	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
----------	----	----	----	----	----	----	----	----	----	----	----	----

**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
----------	----	----	----	----	----	----	----	----	----	----	----	----

**27.22.4.10.3.5 Test Requirement**

The ME shall operate in the manner defined in expected sequences

**27.22.4.11 SEND SS**

Continuous length error in T.R. Result field.

## 27.22.4.11.1 SEND SS (normal)

## 27.22.4.11.1.1 Definition and applicability

This test is only applicable to ME's that support the SEND SS proactive SIM facility.

## 27.22.4.11.1.2 Conformance requirement

The ME shall support the Proactive SIM: Send SS facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1, clause 6.4.11 (Send SS), 6.6.10 (Send SS), clause 12.12.1 (Additional information for Send SS), clause 5.2 (Terminal Profile), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.2 (Alpa identifier), clause 12.14 (SS String), clause 12.31 (Icon identifier), clause 6.5.4 (Icon identifiers).

## 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 System Simulator and the SIM 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

## 27.22.4.11.1.4.2 Procedure

Expected Sequence 1.1 (SEND SS, call forward unconditional, all bearers, successful)

Step	Direction	MESSAGE / Action	Comments
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 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND SS 1.1.1	

**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#"

Coding:

BER-TLV:	D0	27	81	03	01	11	00	82	02	81	83	85
	0C	43	61	6C	6C	20	46	6F	72	77	61	72
	64	89	0E	91	AA	12	0A	21	43	65	87	09
	21	43	65	87	B9							

**REGISTER 1.1**

Logically (only SS argument):

## REGISTER SS ARGUMENT

SS-Code:

- Call Forwarding Unconditional

TeleserviceCode

- All Tele Services

ForwardedToNumber

- nature of address ind. : international

- numbering plan ind. : ISDN/Telephony (E.164)

- TBCD String : 01234567890123456789

Coding:

BER-TLV	30	13	04	01	21	83	01	00	84	0B	91	10
	32	54	76	98	10	32	54	76	98			

**RELEASE COMPLETE (SS RETURN RESULT) 1.1**

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:

BER-TLV	0A	A0	1A	04	01	21	30	15	30	13	83	01
	00	84	01	07	84	0B	91	10	32	54	76	98
	10	32	54	76	98							

TERMINAL RESPONSE : SEND SS 1.1.1

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 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	85	0B	91	10	32
	54	76	98	10	32	54	76	98			

Expected Sequence 1.2 (SEND SS, call forward unconditional, all bearers, Return Error)



Step	Direction	MESSAGE / Action	Comments
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 1.1	
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:

BER-TLV 02 11 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)

Step	Direction	MESSAGE / Action	Comments
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 1.1	
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:

BER-TLV

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 1.4 (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 1.2	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.2	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND SS 1.4.1	

### 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\*+01234567890123456789012345678901234567\*11#"

Coding:

```

BER-TLV:  D0  32  81  03  01  11  00  82  02  81  83  85
           0C  43  61  6C  6C  20  46  6F  72  77  61  72
           64  89  1A  91  AA  12  0A  21  43  65  87  09
           21  43  65  87  09  21  43  65  87  09  21  43
           65  A7  11  FB

```

### REGISTER 1.2

Logically (only SS argument):

REGISTER SS ARGUMENT

RegisterSSArg

SS-Code

- Call Forwarding Unconditional

TeleserviceCode

- Telephony

ForwardedToNumber

- nature of address ind. : international

- numbering plan ind. : ISDN/Telephony (E.164)

- TBCD String : 01234567890123456789012345678901234567

Coding:

```

BER-TLV  30  1C  04  01  21  83  01  11  84  14  91  10
          32  54  76  98  10  32  54  76  98  10  32  54
          76  98  10  32  54  76

```

RELEASE COMPLETE (SS RETURN RESULT) 1.2

Logically (only from operation code):

REGISTER SS RETURN RESULT

ForwardingInfo

SS-Code

- Call Forwarding Unconditional

ForwardFeatureList

ForwardingFeature

TeleserviceCode

- Telephony

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 : 01234567890123456789012345678901234567

Coding:

BER-TLV	0A	A0	23	04	01	21	30	1E	30	1C	83	01
	11	84	01	07	84	14	91	10	32	54	76	98
	10	32	54	76	98	10	32	54	76	98	10	32
	54	76										

TERMINAL RESPONSE : SEND SS 1.4.1

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 performed successfully

Additional information: Operation Code and SS Parameters

Coding:

BER-TLV:	81	03	01	11	00	82	02	82	81	03	27
	00	0A	A0	23	04	01	21	30	1E	30	1C
	83	01	11	84	01	07	84	14	91	10	32
	54	76	98	10	32	54	76	98	10	32	54
	76	98	10	32	54	76					

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	6E	20	69	66	20	74
	68	65	20	46	69	78	65	64	20	44	69	61
	6C	6C	69	6E	67	20	4E	75	6D	62	65	72
	20	73	65	72	76	69	63	65	20	69	73	20
	65	6E	61	62	6C	65	64	2C	20	74	68	65
	20	73	75	70	70	6C	65	6D	65	6E	74	61
	72	79	20	73	65	72	76	69	63	65	20	63
	6F	6E	74	72	6F	6C	20	73	74	72	69	6E
	67	20	69	6E	63	6C	75	64	65	64	20	69
	6E	20	74	68	65	20	53	45	4E	44	20	53
	53	20	70	72	6F	61	63	74	69	76	65	20
	63	6F	6D	6D	61	6E	64	20	73	68	61	6C
	6C	20	6E	6F	74	20	62	65	20	63	68	65
	63	6B	65	64	20	61	67	61	69	6E	73	74
	20	74	68	6F	73	65	20	6F	66	20	74	68
	65	20	46	44	4E	20	6C	69	73	74	2E	20
	55	70	6F	6E	20	72	65	63	65	69	76	69
	6E	67	20	74	68	69	73	20	63	6F	6D	6D
	61	6E	64	2C	20	74	68	65	20	4D	45	20
	73	68	61	6C	6C	20	64	65	63	69	89	04
	FF	BA	13	FB								

**REGISTER 1.3**

Logically (only SS argument):

INTERROGATE SS ARGUMENT  
 SS-Code  
 - Calling Line Id Restriction

Coding:

BER-TLV	30	03	04	01	12
---------	----	----	----	----	----

**RELEASE COMPLETE (SS RETURN RESULT) 1.3**

Logically (only from operation code):

INTERROGATE SS RESULT

CliRestrictionInfo  
 SS-Status  
 - state ind. : operative  
 - provision ind. : provisioned  
 - registration ind. : registered  
 - activation ind. : not active  
 CliRestrictionOption  
 - Temporary Def Allowed

Coding:

BER-TLV 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 01  
 00 0E A4 06 04 01 06 0A 01 02

Expected Sequence 1.6 (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 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND SS 1.1.1	

**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#"

Coding:

BER-TLV:	D0	1B	81	03	01	11	00	82	02	81	83	85
	00	89	0E	91	AA	12	0A	21	43	65	87	09
	21	43	65	87	B9							

## 27.22.4.11.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequence 1, 2, 3, 4, 5 and 6.

## 27.22.4.11.2 SEND SS (Icon support)

## 27.22.4.11.2.1 Definition and applicability

This test is only applicable to ME's that support the SEND SS proactive SIM facility.

Additionally this test only is only applicable to MEs that support the icon facility.

## 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 System Simulator and the SIM 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



See Annex C for coding of the elementary files on SIM.27.22.4.11.2.4.2 Procedure

Expected Sequence 2.1 (SEND SS, call forward unconditional, all bearers, successful, basic icon self explanatory)

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 or May give information to user concerning what is happening	
5	ME → SS	REGISTER 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND SS 2.1.1A or TERMINAL RESPONSE : SEND SS 2.1.1B	[Command performed successfully] or [Command performed but requested icon could not be displayed]

**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

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*+01234567890123456789#"

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  11  00  82  02  81  83  89
           0E  91  AA  12  0A  21  43  65  87  09  21  43
           65  87  B9  9E  02  00  01
    
```

**TERMINAL RESPONSE : SEND SS 2.1.1A**

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  85  0B  91  10  32
          54  76  98  10  32  54  76  98
    
```

**TERMINAL RESPONSE : SEND SS 2.1.1B**

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, 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  85  0B  91  10  32
          54  76  98  10  32  54  76  98
    
```

Expected Sequence 2.2 (SEND SS, call forward unconditional, all bearers, successful, colour icon self explanatory)

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 or May give information to user concerning what is happening	
5	ME → SS	REGISTER 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND SS 2.1.1A or TERMINAL RESPONSE : SEND SS 2.1.1B	[Command performed successfully] or [Command performed but requested icon could not be displayed]

**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

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*+01234567890123456789#"

Icon Identifier:

Icon qualifier: icon is self-explanatory  
 Icon Identifier: record 2 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  00  02
    
```

Expected Sequence 2.3 (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" and BASIC- ICON Or Display "Basic Icon"	
5	ME → SS	REGISTER 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND SS 2.1.1A or TERMINAL RESPONSE : SEND SS 2.1.1B	[Command performed successfully] or [Command performed but requested icon could not be displayed]

### 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

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

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  2A  81  03  01  11  00  82  02  81  83  85
           0B  04  42  61  73  69  63  20  49  63  6F  6E
           89  0E  91  AA  12  0A  21  43  65  87  09  21
           43  65  87  B9  9E  02  01  01

```

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
----------	----	----	----	----	----	----	----	----	----	----	----	----

**27.22.4.11.2.5 Test Requirement**

The ME shall operate in the manner defined in expected sequences .

**27.22.4.11.2 SEND SS (UCS2 support)****27.22.4.11.2.1 Definition and applicability**

This test is only applicable to ME's that support the SEND SS proactive SIM facility

Additionally this test only is only applicable to ME's that support the UCS2 display facility and the Cyrillic alphabet.

**27.22.4.11.2.2 Conformance requirement**

The ME shall support the UCS2 facility as defined in the following technical specifications:

ISO/IEC 10646 [17].

### 27.22.4.11.2.3 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.

### 27.22.4.11.2.4 Method of test

#### 27.22.4.11.2.4.1 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, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the System Simulator.

#### 27.22.4.11.2.4.2 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 1.1	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE: SEND SS 1.1.1	[Command performed successfully]

## 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#”

Coding:

```

BER-TLV:  D0  34  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  0E  91  AA  12  0A  21  43  65  87
          09  21  43  65  87  B9
  
```

#### 27.22.4.11.2.5 Test Requirement

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

#### 27.22.4.12 SEND USSD

TBD

#### 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

This test is only applicable to ME's that support the SET UP CALL proactive SIM facility.

The test sequence 1.11.1 is only applicable to ME supporting the called party subaddress.

###### 27.22.4.13.1.2 Conformance requirement

The ME shall support the Proactive SIM: Set Up Call facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.4.13, 6.6.12

###### 27.22.4.13.1.3 Test Purpose

To verify that the ME accepts a Proactive Set Up Call , displays the message to the user ,attempts to set up a call to the address, 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 with the following exceptions.

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

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

27.22.4.13.1.4.2 Procedure

Expected Sequence 1.1 (SET UP CALL, call confirmed by the user and connected)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND	
2	ME → SIM	PENDING: SET UP CALL 1.1.1 FETCH	
3	SIM → ME	PROACTIVE COMMAND : SET UP CALL 1.1.1	
4	ME → USER	ME displays "Not busy" or otherwise prompts the user to set up a call to "+012340123456p1p2"	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → SS	The ME attempts to set up a call to "+012340123456p1p2"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 1.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 seconds. The ME returns in 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	1E	81	03	01	10	00	82	02	81	83	85
	08	4E	6F	74	20	62	75	73	79	86	09	91
	10	32	04	21	43	65	1C	2C				



**TERMINAL RESPONSE : SET UP CALL 1.1.1**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call  
 Device identities  
 Source device: Network  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 10 00 82 02 83 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 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SET UP CALL 1.2.1	
4	ME → USER	ME displays "Not busy" or otherwise prompts the user to set up a call to "+012340123456p1p2"	
5	USER → ME	The user rejects the set up call	[user rejects the call]
6	ME → SIM	TERMINAL RESPONSE 1.2.1	[User did not accept call set-up request]
7	ME -> USER	The ME returns in idle mode.	

**PROACTIVE COMMAND : 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: SIM  
 Destination device: Network  
 Alpha identifier: "Not busy"  
 Address  
 TON: International  
 NPI: "ISDN / telephone numbering plan"  
 Dialling number string "012340123456p1p2"

Coding:

BER-TLV: D0 1E 81 03 01 10 00 82 02 81 83 85  
 08 4E 6F 74 20 62 75 73 79 86 09 91  
 10 32 04 21 43 65 1C 2C

**TERMINAL RESPONSE : SET UP CALL 1.2.1**

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: Network  
 Destination device: SIM

Result

General Result: User did not accept call set-up request

Coding:

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

**Expected Sequence 1.3 (SET UP CALL, redial)**

The system simulator shall be configured such that call set up requests will return currently busy on call.

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SET UP CALL 1.3.1	[only if not currently busy on another call with redial]
4	ME → USER	ME displays "Not busy with redial" or otherwise prompts the user to set up a call to "+012340123456p1p2"	
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 "+012340123456p1p2" at least twice	[redial mechanism]
7	ME → SIM	TERMINAL RESPONSE 1.3.1	[network currently unable to process command]
8	ME -> USER	The ME returns in idle mode.	

**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 with redial
Device identities
  Source device:      SIM
  Destination device: Network
Alpha identifier:    "Not busy with redial"
Address
  TON:               International
  NPI:               "ISDN / telephone numbering plan"
  Dialling number string "012340123456p1p2"
    
```

Coding:

```

BER-TLV:  D0  2A  81  03  01  10  01  82  02  81  83  85
          14  4E  6F  74  20  62  75  73  79  20  77  69
          74  68  20  72  65  64  69  61  6C  86  09  91
          10  32  04  21  43  65  1C  2C
    
```

**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 with redial
Device identities
  Source device:      Network
  Destination device: SIM
Result
  General Result:    network currently unable to process command
    
```

Coding:

```

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

Expected Sequence 1.4 (SET UP CALL, putting all other calls on hold, ME busy)

ME is busy on a call

Step	Direction	MESSAGE / Action	Comments
1	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" or otherwise prompts the user to set up a call to "+012340123456p1p2"	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → SS	The ME attempts to set up a call to "+012340123456p1p2"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 1.4.1 The ME puts the previous call on hold	[Command performed successfully, previous call on hold]
9	USER → ME	The user ends the call after 5 seconds. The ME returns to the previous call	

**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:      Network
  Destination device: SIM
Result
  General Result:    Command performed successfully
    
```

Coding:

BER-TLV: 81 03 01 10 02 82 02 83 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" or otherwise prompts the user to set up a call to "+012340123456p1p2"	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME->SS	The ME attempts to set up a call to "+012340123456p1p2"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 1.5.1 The ME disconnects the previous call	[Command performed successfully, previous call disconnected]
9	USER → ME	The user ends the call after 5 seconds. The ME returns to the previous call	

**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: "On hold"

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  6E  6E  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: Network  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

```

BER-TLV:  81  03  01  10  04  82  02  83  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 1.6.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SET UP CALL 1.6.1	[only if not currently busy on another call]
4	ME → SIM	TERMINAL RESPONSE 1.6.1	[ME currently unable to process command]

**PROACTIVE COMMAND : 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: SIM  
 Destination device: Network  
 Alpha identifier: "Not busy"  
 Address  
 TON: International  
 NPI: "ISDN / telephone numbering plan"  
 Dialling number string "012340123456p1p2"

Coding:

BER-TLV:	D0	1E	81	03	01	10	00	82	02	81	83	85
	08	4E	6F	74	20	62	75	73	79	86	09	91
	10	32	04	21	43	65	1C	2C				

**TERMINAL RESPONSE : SET UP CALL 1.6.1**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: putting all other calls on hold  
 Device identities  
 Source device: Network  
 Destination device: SIM  
 Result  
 General Result: ME currently unable to process command

Coding:

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

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 1.7.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SET UP CALL 1.7.1	[only if not currently busy on another call]
4	ME → USER	ME displays "On hold" or otherwise prompts the user to set up a call to "+012340123456p1p2"	
5	USER → ME	The user confirms the set up call	[user confirms the call]
6	ME → SIM	TERMINAL RESPONSE 1.7.1	[Network currently unable to process command]

**PROACTIVE COMMAND : SET UP CALL 1.7.1**

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 1.7.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: putting all other calls on hold

Device identities

Source device: Network  
 Destination device: SIM

Result

General Result: ME currently unable to process command

Coding:

```

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



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" or otherwise prompts the user to set up a call to "+012340123456p1p2"	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME->SS	The ME attempts to set up a call to "+012340123456p1p2"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 1.8.1	[Command performed successfully]
9	USER → ME	The user ends the call 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	20			

**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: Network  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

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

Expected Sequence 1.9 (SET UP CALL, 256 chars length, long dialing 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	[long dialing number string, no alpha identifier]
4	ME → USER	ME displays "Capability" or otherwise prompts the user to set up a call to "012345678901234....aaaaa01"	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME->SS	The ME attempts to set up a call to "012345678901234....aaaaa01"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 1.9.1	[Command performed successfully]
9	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: "012345678901234567890123456789\*\*\*\*\*#  
 012345678901234567890123456789\*\*\*\*\*#  
 012345678901234567890123456789\*\*\*\*\*#  
 012345678901234567890123456789\*\*\*\*\*#a\*  
 012345678901234567890123456789\*\*\*\*\*#aa  
 012345678901234567890123456789\*\*\*\*\*#aaa#  
 012345678901234567890123456789\*\*\*\*\*#aaaa  
 012345678901234567890123456789\*\*\*\*\*#aaaaa\*  
 012345678901234567890123456789\*\*\*\*\*#aaaaaa#  
 012345678901234567890123456789\*\*\*\*\*#aaaaaaa#  
 012345678901234567890123456789\*\*\*\*\*#aaaaaaa01"

Coding:

BER-TLV:	D0	81	FD	81	03	01	10	01	82	02	81	83
	86	81	F1	91	10	32	54	76	98	10	32	54
	76	98	10	32	54	76	98	BA	BA	BA	BA	BA
	10	32	54	76	98	10	32	54	76	98	10	32
	54	76	98	BA	BA	BA	BA	BA	10	32	54	76
	98	10	32	54	76	98	10	32	54	76	98	BA
	BA	BA	BA	BA	10	32	54	76	98	10	32	54
	76	98	10	32	54	76	98	BA	BA	BA	BA	BA
	AC	10	32	54	76	98	10	32	54	76	98	10
	32	54	76	98	BA	BA	BA	BA	BA	CC	10	32
	54	76	98	10	32	54	76	98	10	32	54	76
	98	BA	BA	BA	BA	BA	CC	BC	10	32	54	76
	98	10	32	54	76	98	10	32	54	76	98	BA
	BA	BA	BA	BA	CC	CC	10	32	54	76	98	10
	32	54	76	98	10	32	54	76	98	BA	BA	BA
	BA	BA	CC	CC	AC	10	32	54	76	98	10	32
	54	76	98	10	32	54	76	98	BA	BA	BA	BA
	BA	CC	CC	CC	10	32	54	76	98	10	32	54
	76	98	10	32	54	76	98	BA	BA	BA	BA	BA
	CC	CC	CC	BC	10	32	54	76	98	10	32	54
	76	98	10	32	54	76	98	BA	BA	BA	BA	BA
	CC	CC	CC	10								

**TERMINAL RESPONSE : SET UP CALL 1.9.1**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call with redial

Device identities  
 Source device: Network  
 Destination device: SIM

Result  
 General Result: Command performed successfully

Coding:

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

Expected Sequence 1.10 (SET UP CALL,256 chars length, long first alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND	
2	ME → SIM	PENDING: SET UP CALL 1.10.1	
3	SIM → ME	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SET UP CALL 1.10.1	[long 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, "or otherwise prompts the user to set up a call to "+01"	
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 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	6E	6E	65	63	74	69
	6E	67	20	61	6C	6C	20	6F	74	68	65	72
	20	63	61	6C	6C	73	20	28	69	66	20	61
	6E	79	29	20	66	69	72	73	74	2E	20	46
	6F	72	20	65	61	63	68	20	6F	66	20	74
	68	65	73	65	20	74	79	70	65	73	2C	20
	86	02	91	10								

**TERMINAL RESPONSE : SET UP CALL 1.10.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call with redial

Device identities

Source device: Network  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 1.11A (SET UP CALL, Called party subaddress, command performed successfully)

Step	Direction	MESSAGE / Action	Comments
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" or otherwise prompts the user to set up a call to "+012340123456p1p2"	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→SS	The ME attempts to set up a call to "+012340123456p1p2" with the called party subaddress information	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 1.11.1A	[Command performed successfully]
9	USER → ME	The user ends the call The ME returns in idle mode.	

Expected Sequence 1.11B (SET UP CALL, Called party subaddress, ME not supporting the called party subaddress)

Step	Direction	MESSAGE / Action	Comments
1	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 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: Network  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 10 00 82 02 83 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: Network  
 Destination device: SIM  
 Result  
 General Result: Beyond ME's capabilities

Coding:

BER-TLV: 81 03 01 10 00 82 02 83 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 return currently busy on call.

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND	
2	ME → SIM	PENDING: SET UP CALL 1.12.1	
3	SIM → ME	FETCH	
4	ME → USER	PROACTIVE COMMAND : SET UP CALL 1.12.1	[only if not currently busy on another call with redial]
5	ME → USER	ME displays "Duration" or otherwise prompts the user to set up a call to "+012340123456p1p2"	
6	USER → ME	The user confirms the set up call	[user confirms the call]
7	ME → SS	ME attempts to set up a call to "+012340123456p1p2" . It stops its attempts after 10 seconds.	[redial mechanism with maximum duration of 10 seconds]
8	ME → SIM	TERMINAL RESPONSE 1.12.1	[network currently unable to process command]
8	ME → USER	The ME returns in idle mode.	



**PROACTIVE COMMAND : SET UP CALL 1.12.1**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call with redial

Device identities  
 Source device: 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: Network  
 Destination device: SIM

Result  
 General Result: network currently unable to process command

Coding:

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

## 27.22.4.13.1.5 Test Requirement

The ME shall operate in the manner defined in the 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

This test is only applicable to ME's that support the SET UP CALL proactive SIM facility.

27.22.4.13.2.2 Conformance requirement

27.22.4.13.2.3 Test Purpose

To verify that the ME accepts a Proactive Set Up Call , displays the message to the user ,attempts to set up a call to the address, 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 with the following exceptions.

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

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

27.22.4.13.1.4.2 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" or otherwise prompts the user to set up a call to "+012340123456p1p2"	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME->SS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "Call" or otherwise an informative message	[second alpha identifier]
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 2.1.1 The ME shall not update EF LND with the called party address.	[Command performed successfully]
9	USER → ME	The user ends the call after 5 seconds. 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	4 <sup>E</sup>	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: Network  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

## 27.22.4.13.3.5 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

This test is only applicable to ME's that support the SET UP CALL proactive SIM facility.

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 with the following exceptions.

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

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

27.22.4.13.3.4.2 Procedure

Expected Sequence 3.1 (SET UP CALL, display of basic icon during confirmation phase, not self-explanatory )

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. If the ME cannot display both alpha string and icon, it only displays alpha string.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → SS	The ME attempts to set up a call to "+012340123456p1p2"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 3.1.1A or TERMINAL RESPONSE 3.1.1B	[Command performed successfully] or [Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 seconds. 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	38	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: Network  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

## Coding:

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

**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: Network  
 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 83 81 83 01 04

Expected Sequence 3.2 (SET UP CALL, display of basic icon during confirmation phase, self-explanatory )

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 Iduring a user confirmation phase. If the ME cannot display the icon, it displays " Set up call Icon 3.2.1"	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME->SS	The ME attempts to set up a call to "+012340123456p1p2"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 3.2.1A or TERMINAL RESPONSE 3.2.1B	[Command performed successfully] or [Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 seconds. 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  38  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  32  2E  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: Network  
 Destination device: SIM

Result  
 General Result: Command performed successfully

## Coding:

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

**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: Network  
 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 83 81 83 01 04



Expected Sequence 3.3 (SET UP CALL, display of colour icon during confirmation phase, not self-explanatory )

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND	
2	ME → SIM	PENDING: SET UP CALL 3.3.1	
3	SIM → ME	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" and the colour icon during a user confirmation phase. If the ME cannot display both alpha string and icon, it only displays alpha string.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME->SS	The ME attempts to set up a call to "+012340123456p1p2"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 3.3.1A or TERMINAL RESPONSE 3.3.1B	[Command performed successfully] or [Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 seconds. 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 self-explanatory  
 Icon identifier: <record 2 in EF IMG>

Coding:

```

BER-TLV:  D0  38  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:	Network
Destination device:	SIM
Result	
General Result:	Command performed successfully

## Coding:

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

**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:	Network
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 83 81 83 01 04

Expected Sequence 3.4 (SET UP CALL, display of self explanatory basic icon during set up call )

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 the basic icon during a user confirmation phase. If the ME cannot display the icon, it displays " Set up call Icon 3.4.1"	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME->SS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays the basic icon during the set up call. If the ME cannot display the icon, it displays " Set up call Icon 3.4.1"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 3.4.1A or TERMINAL RESPONSE 3.4.1B	[Command performed successfully] or [Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 seconds. 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"

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	48	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	85	16
	53	65	74	20	75	70	20	63	61	6C	6C	20
	49	63	6F	6 <sup>E</sup>	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: Network  
 Destination device: SIM

Result  
 General Result: Command performed successfully

Coding:

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

**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: Network  
 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	83	81	83	01	04
----------	----	----	----	----	----	----	----	----	----	----	----	----

**27.22.4.13.3.5 Test Requirement**

The ME shall operate in the manner defined in expected sequences 3.1 to 3.4.

**27.22.4.14 POLLING OFF**

## 27.22.4.14 POLLING OFF

### 27.22.4.14.1 Definition and applicability

This test is only applicable to ME's that support the POLLING OFF and POLL INTERVAL proactive SIM facilities.

### 27.22.4.14.2 Conformance Requirement

The ME shall support the POLLING OFF as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.14 (Polling Off), clause 6.6.14 (Polling Off), clause 6.8 (Terminal Response), clause 6.11, clause 12.6 (Commands details), clause 12.7 (Device identities).

### 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.

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: POLLING INTERVAL 1.1.1	Interval = 1 min  [command performed successfully]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POLL INTERVAL 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: POLL INTERVAL 1.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: POLLING OFF 1.1.2	[command performed successfully]
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: POLLING OFF 1.1.2	
8	ME → SIM	TERMINAL RESPONSE: POLLING OFF 1.1.2	
9	USER → SIM	Call to be set up	
10	ME → SIM	STATUS	SIM presence detection
11	ME	Time interval shall not exceed 30 seconds	
12	ME → SIM	STATUS	SIM presence detection

**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 1.1.1**

## 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

## Coding:

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

**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.

#### 27.22.4.15 PROVIDE LOCAL INFORMATION

##### 27.22.4.15.1 Definition and applicability

This test is only applicable to ME's that support the PROVIDE LOCAL INFORMATION facility.

##### 27.22.4.15.2 Conformance requirement

The ME shall support the PROVIDE LOCAL INFORMATION facility as defined in the following technical specifications:

TS GSM 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: the 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.

The ME 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) = 1,

Mobile network code (MNC) = 1,

Location Area code (LAC) = 1,

Cell Identity value = 1,

Timing advance = 0,

Frequency parameters : DCS 1800, 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 & Cell ID)).

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND 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 1.1.1	[Command performed successfully, MCC MNC LAC and Cell Identity as system simulator]

#### 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 1.1.1

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: ME

Destination device: SIM

Result

General Result: Command performed successfully

Location Information

MCC & MNC: MCC = 1, MNC = 1

Location Area Code: 1

Cell Identity Value: 1



Coding:

BER-TLV: 81 03 01 26 00 82 02 82 81 83 01 00  
 93 07 00 F1 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 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]

**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 XX XX XX XX XX XX XX

As an example, if the IMEI of the mobile is “1234567890123456” then XX XX XX XX XX XX XX XX = 21 43 65 87 09 21 43 65

Expected Sequence 1.3 (PROVIDE LOCAL INFORMATION, Network measurement results (NMR) )

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND 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  0E  8C  63  58  E2
          39  8F  63  F9  06  45  91  A4  90  00
```

Expected Sequence 1.4 (PROVIDE LOCAL INFORMATION, Date, Time, Time Zone)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND 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 information, as an example in TLV date an time set by the user : 7<sup>th</sup> may 2002, 14h 08mn 17s, no time zone

Coding:

BER-TLV: 81 03 01 26 03 82 02 82 81 83 01 00  
 A6 07 20 50 70 41 80 71 FF

Expected Sequence 1.5 (PROVIDE LOCAL INFORMATION, Language setting )

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND 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)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND 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

## 27.22.4.16 SET UP EVENT LIST

### 27.22.4.16.1 SET UP EVENT LIST (normal)

#### 27.22.4.16.1.1 Definition and applicability

This test is only applicable to ME's that support the SET UP EVENT LIST proactive SIM facility.

#### 27.22.4.16.1.2 Conformance requirement

The ME shall support the Proactive SIM: Set Up Event List facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.4.16, 6.6.16

Additionally the ME shall support the Event Download: Call Connect and the Event Download: Call Disconnected mechanism as defined in the following technical specifications:

TS GSM 11.14 [15] clause 11.2, 11.2.1, 11.2.2, 11.3, 11.3.1 and 11.3.2.

#### 27.22.4.16.1.3 Test Purpose

To verify that the 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.

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

## 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  
 Value: XX XX  
 Address  
 Value: XX XX  
 Called party subaddress  
 Value: XX XX

**CONNECT 1.1.1**

Logically:

Transaction identifier  
 Value: XX XX

**ENVELOPE : EVENT DOWNLOAD CALL CONNECTED 1.1A.1**

Logically:

Event list  
 Event 1: Call Connected  
 Device identities  
 Source device: Network  
 Destination device: SIM  
 Transaction identifier  
 Value: XXXX

Coding:

BER-TLV: D6 xx 99 01 01 82 02 83 81 9C xx ...

Expected Sequence 1.2 (SET UP EVENT LIST, Replace Event)

Step	Direction	MESSAGE / Action	Comments
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]
	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.2.1	
4	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.2	
5	ME → SIM	FETCH	
6	SIM → ME	PROACTIVE COMMAND : SET UP EVENT LIST 1.2.2	[Call Disconnected Event]
7	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.2.2	
8	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 ME → SIM	DISCONNECT 1.2.2 ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2	[Call Disconnect Event]
14	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	
Value:	XX XX
Address	
Value:	XX XX
Called party subaddress	
Value:	XX XX

**CONNECT 1.2.2**

Logically:

Transaction identifier	
Value:	XX XX

**DISCONNECT 1.2.2**

Logically:

Transaction identifier	
Value:	XX XX
Cause	
Value:	XX XX

**ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2**

Logically:

Event list	
Event 1:	Call Disconnected
Device identities	
Source device:	Network
Destination device:	SIM
Transaction identifier	
Value:	XX XX
Cause	
Value:	XX XX

Coding:

BER-TLV:	D6	xx	99	01	02	82	02	83	81	9C	xx	...
	9A	xx	...									

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 1.3.1	
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	[Incoming call alert]
11	USER → ME	User shall accept the incoming call	
12	ME → SS	CONNECT 1.3.2	
13	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  
 Value: XX XX  
 Address  
 Value: XX XX  
 Called party subaddress  
 Value: XX XX

**CONNECT 1.3.2**

Logically:

Transaction identifier  
 Value: XX XX

**DISCONNECT 1.3.2**

Logically:

Transaction identifier  
 Value: XX XX  
 Cause  
 Value: XX XX

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 1.4A	[Incoming call alert]
8	USER → ME	User shall accept the incoming call	
9	ME → SS	CONNECT 1.4.1	
10	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	
Value:	XX XX
Address	
Value:	XX XX
Called party subaddress	
Value:	XX XX

**CONNECT 1.4.1**

Logically:

Transaction identifier	
Value:	XX XX

**DISCONNECT 1.4.1**

Logically:

Transaction identifier	
Value:	XX XX
Cause	
Value:	XX XX

**27.22.4.16.1.5 Test Requirement**

The ME shall operate in the manner defined in expected sequences 1, 2, 3 and 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**

This test is only applicable to ME's that support the PERFORM CARD APDU proactive SIM facility and multiple card operation.

other commands / responses might be present in the sequence, as they are generated directly by the mobile for management procedures. The simulator shall not take into account these commands. Only the presence, order and content of the expected command in the sequence are tested.

**27.22.4.17.1.2 Conformance requirement**

The ME shall support the Proactive SIM: Perform Card APDU facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1, clause 5.2 (Terminal Profile), clause 6.4.17 (Perform Card APDU), clause 6.6.17 (Perform Card APDU), clause 6.8 (Structure of Terminal Response), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.35 (C-APDU), clause 12.36 (R-APDU), clause 12.12.9 (Additional information for MultipleCard Commands)

Additionally the ME shall support multiple card operation as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.4.19 (Power On Card), clause 6.6.19 (Power On Card), clause 6.4.18 (Power Off Card), clause 6.6.18 (Power Off Card)

#### 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 X).

#### 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 X.



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 initialisation]
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

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:

BER-TLV: 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:

```

BER-TLV:  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:

BER-TLV: 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 11 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:

BER-TLV: 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: Initialised  
 Unlock CHV1 status:  
 False representations remaining: 10  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 CHV2 status:  
 False representations remaining: 3  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 Unlock CHV2 status:  
 False representations remaining: 10  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 RFU bytes 23: 00  
 Reserved for admin. management: 00 83 00 FF  
 Status Words  
 SW1 / SW2: Normal ending of command

Coding:

BER-TLV: 00 00 02 8D 3F 00 01 00 00 22 FF 01  
 0E 9B 02 08 03 00 83 8A 83 8A 00 00  
 83 00 FF 90 00

**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: 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: Initialised

## Unlock CHV1 status:

False representations remaining: 10  
 RFU-bits 7-5: 000  
 Secret code: Initialised

## CHV2 status:

False representations remaining: 3  
 RFU-bits 7-5: 000  
 Secret code: Initialised

## Unlock CHV2 status:

False representations remaining: 10  
 RFU-bits 7-5: 000  
 Secret code: Initialised

## 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	11	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	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER ON CARD 1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialisation]
5	SIM2 → ME	ANSWER TO RESET 1.1	[ATR]
6	ME → SIM	TERMINAL RESPONSE: POWER ON CARD 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: PERFORM CARD APDU 1.2.5	[Update Binary]

32	ME → SIM2	C-APDU: UPDATE BINARY 1.2a	[Update Binary]
33	SIM2 → ME	R-APDU: UPDATE BINARY 1.2	
34	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

Class: 'A0'  
 Instruction: UPDATE BINARY  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '18'

Data: 'FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF'  
 FF FF FF FF FF FF FF FF'

Coding:

BER-TLV:	D0	28	81	03	01	30	00	82	02	81	11	A2
	1D	A0	D6	00	00	18	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF						

C-APDU: SELECT 1.2a

Logically:

C-APDU

Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: DF GSM

Coding:

BER-TLV:	A0	A4	00	00	02	7F	20
----------	----	----	----	----	----	----	----

C-APDU: SELECT 1.2b

Logically:

C-APDU

Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: EF PLMN

Coding:

BER-TLV:	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:

```

BER-TLV:  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:

```

BER-TLV:  A0  B0  00  00  18
    
```

C-APDU: UPDATE BINARY 1.2a

Logically:

```

C-APDU
Class:          'A0'
Instruction:    UPDATE BINARY
P1 parameter:  '00'
P2 parameter:  '00'
Lc:            '18'
Data:          'FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
              FF FF FF FF FF FF FF FF'
    
```

Coding:

```

BER-TLV:  A0  D6  00  00  18  FF  FF  FF  FF  FF  FF  FF
          FF  FF  FF  FF  FF  FF  FF  FF  FF  FF  FF  FF
          FF  FF  FF  FF  FF
    
```

R-APDU: SELECT 1.2a

Logically:

```

Status Words
SW1 / SW2:      Normal ending of command – length '1B' of response data
    
```

Coding:

```

BER-TLV:  9F  1B
    
```

R-APDU: SELECT 1.2b

Logically:

Status Words  
SW1 / SW2:

Normal ending of command - length '0F' of response data

Coding:

BER-TLV: 9F 0F

R-APDU: UPDATE BINARY 1.2

Logically:

Status Words  
SW1 / SW2:

Normal ending of command

Coding:

BER-TLV: 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 0D 0E 0F  
10 11 12 13 14 15 16 17 '

Status Words  
SW1 / SW2:

Normal ending of command

Coding:

BER-TLV: 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F  
          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 11 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 11 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 11 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  11  81  83  01  00
          A2  81  EF  A0  D6  00  00  EC  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 → SIM2	POWER OFF CARD	[Power off card reader 1]
5	ME → SIM	TERMINAL RESPONSE: POWER OFF CARD 1.3.1	[Successful]
6	ME	SIM2 is powered off from ME card reader	
7	SIM → ME	PROACTIVE COMMAND PENDING: PEFORM 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 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 32 00 82 02 82 81 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	
4	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	[Select Master File]
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 32 00 82 02 82 81 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 1.1.1**

Logically:

```

Command details
  Command number:      1
  Command type:       PERFORM CARD APDU
  Command qualifier:  "00"
Device identities
  Source device:      SIM
  Destination device: Card Reader 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:

```

BER-TLV:  A0 A4 00 00 02 3F 00
    
```

**TERMINAL RESPONSE : PERFORM CARD APDU 1.5.1**

Logically:

```

Command details
  Command number:      1
  Command type:       PERFORM CARD APDU
  Command qualifier:  "00"
Device identities
  Source device:      ME
  Destination device: SIM
Result
  General Result:     MultipleCard commands error
  Additional information: Specified reader not valid
    
```

Coding:

```

BER-TLV:  81 03 01 32 00 82 02 82 81 02 38
           09
    
```

## 27.22.4.17.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences

## 27.22.4.17.2 PERFORM CARD APDU (detachable card reader)

## 27.22.4.17.2.1 Definition and applicability

This test is only applicable to ME's that support the PERFORM CARD APDU proactive SIM facility and multiple card operation with detachable card readers.

## 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 1.1.1	[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.

**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**

This test is only applicable to ME's that support the POWER OFF CARD proactive SIM facility and multiple card operation.

## 27.22.4.18.1.2 Conformance requirement

The ME shall support the Proactive SIM: Power Off Card facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1, clause 6.4.18 (Power Off Card), clause 6.6.18 (Power Off Card), clause 12.6 (Command details), clause 12.7 (Device Identities), clause 12.12 (Result), clause 12.12.9 (Additional information for MultipleCard commands), clause 5.2 (Terminal Profile), Annex H(Support of Multiple Card Operation),

:

## 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).

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

**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 01 00

Expected Sequence 1.2 (POWER OFF CARD, card reader 1, no card inserted)

Step	Direction	MESSAGE / Action	Comments
1	SIM2	SIM2 is removed from 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  02  38
          02

```

## 27.22.4.18.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences

## 27.22.4.18.2 POWER OFF CARD (detachable card reader)

## 27.22.4.18.2.1 Definition and applicability

This test is only applicable to ME's that support the POWER OFF CARD proactive SIM facility and multiple card operation with detachable card readers.

## 27.22.4.18.2.2 Conformance requirement

## 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 ON 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

**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 02 38  
 01

27.22.4.18.2.5 Test Requirement The ME shall operate in the manner defined in expected sequences

## 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

This test is only applicable to ME's that support the POWER ON CARD proactive SIM facility and multiple card operation.

#### 27.22.4.19.1.2 Conformance requirement

The ME shall support the Proactive SIM: Power On Card facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1, clause 6.4.19 (Power On Card), clause 6.6.19 (Power On Card), ), clause 12.6 (Command details), clause 12.7 (Device Identities), clause 12.12 (Result), clause 12.12.9 (Additional information for MultipleCard commands), clause 12.34 (Card ATR), clause 5.2 (Terminal Profile), TS GSM 11.14 [15] Annex H(Support of Multiple Card Operation), ISO /IEC 7816-3

#### 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).

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 initialisation]
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

**ANSWER TO RESET 1.1.1**

## Logically:

TS (Initial character): '3B'  
 T0 (Format character): 0F

T1 (Historical character): 'P'  
 T2 (Historical character): 'o'  
 T3 (Historical character): 'w'  
 T4 (Historical character): 'e'  
 T5 (Historical character): 'r'  
 T6 (Historical character): 'O'  
 T7 (Historical character): 'n'  
 T8 (Historical character): 'C'  
 T9 (Historical character): 'a'  
 T10 (Historical character): 'r'  
 T11 (Historical character): 'd'  
 T12 (Historical character): 'T'  
 T13 (Historical character): 'e'  
 T14 (Historical character): 's'  
 T15 (Historical character): 't'

## Coding:

BER-TLV: A1 11 3B 0F 50 6F 77 65 72 4F 6E 43  
 61 72 64 54 65 74 75

**TERMINAL RESPONSE : POWER ON CARD 1.1.1**

Logically:

Command details

Command number: 1  
 Command type: POWER ON CARD  
 Command qualifier: "00"

Device identities

Source device: 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 initialisation]
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

## 27.22.4.19.2 POWER ON CARD (detachable card reader)

## 27.22.4.19.2.1 Definition and applicability

This test is only applicable to ME's that support the POWER ON CARD proactive SIM facility and multiple card operation with detachable card readers.

## 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 with the following exceptions.

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

The card reader shall be detached from the ME.

## 27.22.4.19.2.4.2 Procedure

Expected Sequence 2.1 (POWER ON CARD, card reader 1, no card reader attached)

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

**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: 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 sequences

**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**

This test is only applicable to ME's that support the GET READER STATUS proactive SIM facility and multiple card operation.

**27.22.4.20.1.2 Conformance requirement**

The ME shall support the Proactive SIM: Get Card Reader Status facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1(Introduction), clause 5.2 (Terminal Profile), clause 6.4.20 (Get Reader Status), clause 6.6.20 (Get Reader Status), clause 6.8 (Terminal Response), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.33 (Card Reader Status), clause 12.57 (Card Reader Identifier), Annex H (Support of Multiple

Card Operation) Additionally the ME shall support multiple card operation as defined in the following technical specifications:

TS GSM 11.14 [] clause 6.4.19 (Power On Card), clause 6.6.19 (Power On Card), clause 6.4.18 (Power Off Card), 6.6.18 (Power Off Card)

#### 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).

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.

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 PENDING: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialisation]
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:

BER-TLV: A1 02 3B 00

### TERMINAL RESPONSE : POWER ON CARD 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: POWER ON CARD  
 Command qualifier: "00"  
 Device identities  
 Source device: 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 → SIM2	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 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: '1'  
 Card reader removable: 'No'  
 Card reader present: Yes  
 Card reader ID-1 size: 'Yes'  
 Card present in reader: No  
 Card powered: No

Coding:

BER-TLV: 81 03 01 33 00 82 02 82 81 83 01  
 00 A0 01 31

**TERMINAL RESPONSE : GET CARD READER STATUS 1.3.1b**

## Logically:

Command details  
 Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: card reader status

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully

Card reader status  
 Identity of card reader: '1'  
 Card reader removable: 'No'  
 Card reader present: Yes  
 Card reader ID-1 size: 'No'  
 Card present in reader: No  
 Card powered: No

## Coding:

```

BER-TLV:  81  03  01  33  00  82  02  82  81  83  01
          00  A0  01  11
  
```

**TERMINAL RESPONSE : GET CARD READER STATUS 1.3.1c**

## Logically:

Command details  
 Command number: 1  
 Command type: GET CARD READER STATUS  
 Command qualifier: card reader status

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully

Card reader status  
 Identity of card reader: '1'  
 Card reader removable: 'Yes'  
 Card reader present: Yes  
 Card reader ID-1 size: 'Yes'  
 Card present in reader: No  
 Card powered: No

## Coding:

```

BER-TLV:  81  03  01  33  00  82  02  82  81  83  01
          00  A0  01  39
  
```

**TERMINAL RESPONSE : GET CARD READER STATUS 1.3.1d**

Logically:

## Command details

Command number:	1
Command type:	GET CARD READER STATUS
Command qualifier:	Card reader status

## Device identities

Source device:	ME
Destination device:	SIM

## Result

General Result:	Command performed successfully
-----------------	--------------------------------

## Card reader status

Identity of card reader:	'1'
Card reader removable:	'Yes'
Card reader present:	Yes
Card reader ID-1 size:	'No'
Card present in reader:	No
Card powered:	No

Coding:

BER-TLV:	81	03	01	33	00	82	02	82	81	83	01
	00	A0	01	19							

## 27.22.4.20.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences

## 27.22.4.20.2 GET CARD READER STATUS (detachable card reader)

## 27.22.4.20.2.1 Definition and applicability

This test is only applicable to ME's that support the GET CARD READER STATUS proactive SIM facility and multiple card operation with detachable card readers.

## 27.22.4.20.2.2 Conformance requirement

## 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 with the following exceptions.

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 sequences

**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

This test is only applicable to ME's that support the TIMER MANAGEMENT proactive SIM facility.

## 27.22.4.21.1.2 Conformance Requirement

The ME shall support the TIMER MANAGEMENT as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.21 (Timer Management), clause 6.8 (Terminal Response), clause 12.6 (Commands details), clause 12.7 (Device Identities), clause 12.37 (Timer Identifier), clause 12.38 (Timer Value).

## 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 with the following exceptions.

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

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

## 27.22.4.21.1.4.2 Procedure

Expected Sequence 1.1 (TIMER MANAGEMENT, start timer 1 several times, get the current value of the timer and deactivate the timer successfully)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.1	
2	ME → SIM	FETCH	
3	ME → SIM	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	ME → SIM	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	ME → SIM	PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.3	[reinitialise 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 seconds following reception of the Terminal Response
14	ME → SIM	FETCH	
15	ME → SIM	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	10	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 30sec

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	10	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 < 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	[reinitialise 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: 23h 59min 59sec

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	10	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: 40 sec

Coding :  
 BER-TLV: D0 11 81 03 01 27 00 82 02 81 82 A4  
 01 02 A5 03 00 00 04

**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	10	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 < 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		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		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		PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.3	[reinitialise 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		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	10	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: 01h 00min 00sec

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	10	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 Sequence 1.4 (TIMER MANAGEMENT, try to get the current value of a timer which is not started:  
action in contradiction with the current timer state)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.1	[get current value from timer 1]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1	[action in contradiction with the current timer state]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.2	[get current value from timer 2]
8	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2	[action in contradiction with the current timer state]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.3	
10	ME → SIM	FETCH	
11	SIM → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.3	[get current value from timer 3]
12	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.4	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.4	[get current value from timer 4]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.5	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.5	[get current value from timer 5]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.6	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.6	[get current value from timer 6]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.7	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.7	[get current value from timer 7]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.8	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.8	[get current value from timer 8]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8	[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 10 82 02 81 82 A4  
 01 01

**TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1**

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 10 82 02 82 81 83 01 24  
 A4 01 01

**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	10	82	02	81	82	A4
	01	02										

**TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2**

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	10	82	02	82	81	83	01	24
	A4	01	02									

**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	10	82	02	81	82	A4
	01	03										

**TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3**

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	10	82	02	82	81	83	01	24
	A4	01	03									

**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	10	82	02	81	82	A4
	01	04										

**TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4**

## 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	10	82	02	82	81	83	01	24
	A4	01	04									

**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	10	82	02	81	82	A4
	01	05										

**TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5**

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 10 82 02 82 81 83 01 24  
 A4 01 05

**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 10 82 02 81 82 A4  
 01 06

**TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6**

## 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	10	82	02	82	81	83	01	24
	A4	01	06									

**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	10	82	02	81	82	A4
	01	07										

**TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7**

## 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	10	82	02	82	81	83	01	24
	A4	01	07									

**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	10	82	02	81	82	A4
	01	08										

**TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8**

## 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	10	82	02	82	81	83	01	24
	A4	01	08									





Expected Sequence 1.5 (TIMER MANAGEMENT, try to deactivate a timer which is not started: action in contradiction with the current timer state)

Step	Direction	MESSAGE / Action	Comments
1	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 1.5.1	[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 1.5.2	[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 1.5.3	[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 1.5.4	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.5	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.5	[deactivate timer 5]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.5	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.6	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.6	[deactivate timer 6]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.6	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.7	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.7	[deactivate timer 7]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.7	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.5.8	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.5.8	[deactivate timer 8]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.5.8	[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 1.5.1**

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									

**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 1.5.2**

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

**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 1.5.3**

## 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									

**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 1.5.4**

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									

**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 1.5.5**

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									

**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 1.5.6**

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									

**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 1.5.7**

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

**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 1.5.8**

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

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 1.6.6	[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 sec

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: 5sec

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: 5sec

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: 5sec

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: 5sec

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: 5sec

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:      5sec
    
```

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: 5sec

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

### 27.22.4.21.2 ENVELOPE TIMER EXPIRATION (normal)

#### 27.22.4.21.2.1 Definition and applicability

This test is only applicable to ME's that support the ENVELOPE (TIMER EXPIRATION) facility.

#### 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 GSM 11.14 clause 4.10, 10.1 and 10.2.

The ME shall support the TIMER MANAGEMENT as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.21 (Timer Management), clause 6.8 (Terminal Response), clause 12.6 (Commands details), clause 12.7 (Device Identities), clause 12.37 (Timer Identifier), clause 12.38 (Timer Value).

#### 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 with the following exceptions.

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

The timer 1 is not started.

When the SIM is busy when the envelope TIMER EXPIRATION is sent, either the ME retries periodically to



send the envelope, either it waits for a TERMINAL RESPONSE processed by the SIM with status '90 00'.

If the ME waits for a TR with status '90 00', the ME manufacturer shall specify how many TERMINAL RESPONSES with status '90 00' are expected before sending the TIMER EXPIRATION envelope.

27.22.4.21.2.4.2 Procedure

Expected Sequence 2.1 (TIMER EXPIRATION, pending proactive SIM command)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 2.1.1	[timer 1]  [command performed successfully]  [response to envelope is "91 xx"]
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND: TIMER MANAGEMENT 2.1.1	
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 2.1.1	
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).	
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: 0h 0min 10sec

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 sec

## Coding :

BER-TLV: D7 0C 82 02 82 81 A4 01 01 A5 03 00  
 00 xx

Expected Sequence 2.2A (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		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, the ME retries the sending of the envelope until it is accepted]
7	ME → SIM	ENVELOPE: TIMER EXPIRATION 2.2.1B	
8	SIM → ME	PROACTIVE SIM SESSION BUSY	[SIM is busy, response to the envelope = "93 00"]
9	ME → SIM	ENVELOPE: TIMER EXPIRATION 2.2.1C	
10	SIM → ME	PROACTIVE SIM SESSION ENDED	[SIM is not busy]

Or :

Expected Sequence 2.2B (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		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	RESPONSE TO THE ENVELOPE	[SIM is busy; response to the envelope = "93 00"] [SIM is busy during 10 sec, the ME may retry to send the envelope. After one (or several) answer(s) 93 00, the ME waits for a TERMINAL RESPONSE processed by the SIM with status "90 00"]
7	ME → SIM	STATUS	[SIM is not busy]
8	SIM → ME	Response to the STATUS command	[SW1/SW2=91 xx]
9	ME → SIM	PROACTIVE COMMAND PENDING	
10	SIM → ME	FETCH	
		PROACTIVE COMMAND: e.g. MORE TIME 2.2.2	
11	ME → SIM	TERMINAL RESPONSE: e.g. TIMER MANAGEMENT 2.2.2	[command performed successfully]
12	SIM → ME		[SW1/SW2 = 90 00] Steps 7->12 shall be repeated (X-1) times if the ME manufacturers specifies that the ME waits for X TERMINAL RESPONSES with status 90 00 to send the TIMER EXPIRATION envelope.
13	ME → SIM	ENVELOPE: TIMER EXPIRATION 2.2.1B	
14		PROACTIVE SIM SESSION ENDED	

### 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: 0h 0min 30sec

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 sec

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 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

**27.22.4.21.2.5 Test Requirement**

The ME shall operate in the manner defined in expected sequences 1 and 2.

**27.22.4.21.2 ENVELOPE TIMER EXPIRATION (normal)**

TBD

**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**

These tests are only applicable to ME's that support the SET UP IDLE MODE TEXT.

Additionally :

- The ME must support SET UP EVENT LIST and EVENT DOWNLOAD IDLE SCREEN AVAILABLE proactive SIM facilities.
- Some tests are only applicable to ME's that also support the SMS display immediate facility and the REFRESH proactive SIM facility.

## 27.22.4.22.1.2 Conformance requirement

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.22, 6.6.22, 6.4.16, 6.6.16, 11.6, 6.8 (Terminal Response), 11, 11.1, 12.25, 6.4.7, 6.6.13

Additionally the ME shall support the REFRESH proactive SIM facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2, 6.1, 6.4.7, 6.6.13, 6.11, 12.6, 12.12, 13.4 and 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 and performed the PROFILE DOWNLOAD procedure.

The following events shall have been set up in the ME.

**Event List**

Logically:

Event 1: Idle screen available

## 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 EVENT LIST 1.1.1	With the event Idle Screen available
2	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.1.1	[Command performed successfully]
3	USER → ME	Wait for the mobile returns to idle mode.	
4	ME → SIM	Select idle screen ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.2	[Idle Mode Text]
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1.2	
8	ME → USER	Display "Idle Mode Text"	
9	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1.2	[Command performed successfully]
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: 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

**ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1.1**

## Logically:

Event list  
 Event 1: Idle screen available  
 Device identities  
 Source device: Display  
 Destination device: SIM

## Coding:

BER-TLV: D6 07 99 01 05 82 02 02 81

**PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1.2**

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"

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
	56	65	78	74								

**TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1.2**

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 1.2 (SET UP IDLE MODE TEXT, replace idle mode text)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	With the event Idle Screen available
2	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.1.1	[Command performed successfully]
3	USER → ME	Wait for the mobile returns to idle mode. Select idle screen	
4	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1.2	[Idle Mode Text]
8	ME → USER	Display "Idle Mode Text"	
9	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1.2	
10	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.2.1	[Idle Mode Text]
11	ME → USER	Display "Toolkit Test"	
12	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.2.1	
13	SIM → ME	PROACTIVE SIM SESSION ENDED	

**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: Display

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

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 EVENT LIST 1.1.1	With the event Idle Screen available
2	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.1.1	[Command performed successfully]
3	USER → ME	Wait for the user returns to idle mode. Select idle screen	
4	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1.2	["Idle Mode Text"]
8	ME → USER	Display "Idle Mode Text"	
9	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1.2	
10	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.3.1	
11	ME → SIM	FETCH	
12	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.3.1	[Remove idle mode text]
13	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	
14	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.3.1	
15	SIM → ME	PROACTIVE SIM SESSION ENDED	

**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
----------	----	----	----	----	----	----	----	----	----	----	----	----

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 EVENT LIST 1.1.1	With the event Idle Screen available
2	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.1.1	[Command performed successfully]
3	USER → ME	Wait for the mobile returns to idle mode. Select idle screen	
4	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1.2	
5	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1/2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1.2	["Idle Mode Text"]
8	ME → USER	Display "Idle Mode Text"	
9	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.12	[Command performed successfully]
10	SS → ME	SMS PP 1.4.1	[Display immediate SMS]
11	ME → USER	Display "Short Message"	
12	USER → ME	Clear display and select idle screen	
13	ME → USER	Display "Idle Mode Text"	

SMS-PP 1.4.1

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

SMS-SUBMIT

Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VP field not present

TP-Reply-Path is not set in this SMS-SUBMIT

The TP-UD field contains only the short message

A status report is not requested

"00"

International number

"ISDN / telephone numbering plan"

"012345678"

Short message type 0

8-bit data

class 0

12

"Test Message"

Coding:    01   00   09   91   10   32   54   76   F8   40   F4   0C  
              54   65   73   74   20   4D   65   73   73   61   67   65

## 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 EVENT LIST 1.1.1	With the event Idle Screen available
2	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.1.1	[Command performed successfully]
3	USER → ME	Wait for the mobile returns into idle mode.	
4	ME → SIM	Select idle screen ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1.2	["Idle Mode Text"]
8	ME → USER	Display "Idle Mode Text"	
9	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1.2	[command performed successfully]
10	USER → ME	Power off ME	
11	ME ↔ SIM	GSM TERMINATION PROCEDURE	
12	USER → ME	Power on ME	
13	ME ↔ SIM	GSM ACTIVATION PROCEDURE	
14	ME ↔ SIM	SIM INITIALISATION	
14	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	

## Expected Sequence 1.6 (SET UP IDLE MODE TEXT, REFRESH with SIM Initialisation)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	With the event Idle Screen available
2	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.1.1	[Command performed successfully]
3	USER → ME	Wait for the mobile returns to idle mode. Select idle screen	
4	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	[Idle Mode Text]
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1.2	
8	ME → USER	Display "Idle Mode Text"	
9	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1.2	
10	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 1.6.1	
11	ME → SIM	FETCH	
12	SIM → ME	PROACTIVE COMMAND : REFRESH 1.6.1	[SIM Initialisation]
13	ME ↔ SIM	SIM INITIALISATION	
14	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	
15	ME → SIM	TERMINAL RESPONSE : REFRESH 1.6.1 or TERMINAL RESPONSE : REFRESH 1.6.1	[Command performed successfully]  [Command performed successfully with additional files read]
16	SIM → ME	PROACTIVE SIM SESSION ENDED	

**PROACTIVE COMMAND : REFRESH 1.6.1**

Logically:

Command details

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

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 1.61A**

## Logically:

## Command details

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

## 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 1.61B**

## Logically:

## Command details

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

## 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 1.7 (SET UP IDLE MODE TEXT, large text string)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	With the event Idle Screen available
2	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.1.1	[Command performed successfully]
3	USER → ME	Wait for the mobile returns to idle mode. Select idle screen	
4	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.7.1	[large text string]
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.7.1	
8	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"	
9	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.7.1	[command performed successfully]
10	SIM → ME	PROACTIVE SIM SESSION ENDED	

**ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.7.1**

Logically:

Event list  
 Event 1: Idle screen available  
 Device identities  
 Source device: Display  
 Destination device: SIM

Coding:

BER-TLV: D6 07 99 01 05 82 02 02 81

**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"

BER-TLV:	D0	81	FB	81	03	01	28	00	82	02	81	82
	8D	81	EF	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	01
	74	74	19	D4	2C	82	C2	73	50	D8	0D	4A
	93	D9	65	50	FB	4D	2E	83	E8	65	3C	1D
	94	36	83	E8	E8	32	A8	59	04	A5	E7	A0
	B0	98	5D	06	D1	DF	20	F2	1B	94	A6	BB
	40	54	74	19	04	97	03	E5	79	D9	4D	0F
	D3	D3	6F	37	68	4E	CF	B3	CB	A0	F4	1C
	C4	2E	9B	E9	A0	F0	1C	14	76	83	D2	6D
	38	BB	DC	2E	BB	E9	61	7A	FA	ED	06	91
	CB	E3	F4	3C	FD	76	83	E8	6F	10	1D	5D
	06	35	8B	ED	B0	BB	6E	0E	8F	E9	75	79
	59	EE	02	51	D1	65	50	9A	CC	2E	83	DA
	6F	72	19	44	2F	E3	01	74	D0	1C	1D	66
	B3	41	E2	32	88	9C	9E	C3	D9	E1	7C	99
	0C	4A	BB	41	61	50	3B	EC	76	97	E5	74
	74	98	0E	2A	BB	E7	75	79	79	0E	A2	A3
	C3	74										

**TERMINAL RESPONSE : 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: 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
----------	----	----	----	----	----	----	----	----	----	----	----	----

## 27.22.4.22.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequence 1, 2, 3, 4, 5, 6 and 7.

## 27.22.4.22.2 SET UP IDLE MODE TEXT (Icon support)

### 27.22.4.22.2.1 Definition and applicability

This test is only applicable to ME's that support the SET UP IDLE MODE TEXT proactive SIM facility and the icon identifier facility.

### 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 qualifier with bit 1 set to 0, meaning "an alpha identifier or text string related to the icon may be displayed together with the icon by the ME", and 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 with the following exceptions.

#### **EF IMG**

Logically:

Record 1  
<small icon>

Record 2  
<tall icon (line)>

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

The following events shall have been set up in the ME.

#### **Event List**

Logically:

Event 1: Idle screen available

27.22.4.22.2.4.2 Procedure

Expected Sequence 2.1 (SET UP IDLE MODE TEXT, Icon is self-explanatory)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.1.1	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.1.1	[Icon is self-explanatory]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.1.1	
6	ME → USER	Display icon #1	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 2.1.1	[command performed successfully]
8	SIM → ME	Or 2.1.2 PROACTIVE SIM SESSION ENDED	[requested icon could not be displayed]

**ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.1.1**

Logically:

Event list  
 Event 1: Idle screen available  
 Device identities  
 Source device: Display  
 Destination device: SIM

Coding:

BER-TLV: D6 07 99 01 05 82 02 02 81

**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  
 0F 04 49 64 6C 65 20 56 65 78 74 9E  
 02 00 01

**TERMINAL RESPONSE : SET UP IDLE MODE LIST 2.1.1**

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

**TERMINAL RESPONSE : SET UP IDLE MODE LIST 2.1.2**

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 2.2 (SET UP IDLE MODE TEXT, Icon is not self-explanatory)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.2.1	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.2.1	[Icon is not self-explanatory]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.2.1	
6	ME → USER	Display icon #1 and "Idle text"	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 2.2.1	[command performed successfully]
8	SIM → ME	Or 2.2.2 PROACTIVE SIM SESSION ENDED	[requested icon could not be displayed]

**ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.2.1**

Logically:

Event list  
 Event 1: Idle screen available  
 Device identities  
 Source device: Display  
 Destination device: SIM

Coding:

BER-TLV: D6 07 99 01 05 82 02 02 81

**PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.2.1**

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  
 0F 04 49 64 6C 65 20 56 65 78 74 9E  
 02 01 01

**TERMINAL RESPONSE : SET UP IDLE MODE LIST 2.2.1**

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

**TERMINAL RESPONSE : SET UP IDLE MODE LIST 2.2.2**

## 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 2.3 (SET UP IDLE MODE TEXT, Icon is self-explanatory, large (tall) icon)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.3.1	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.3.1	[Icon is self-explanatory]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.3.1	
	ME USER	Display "Idle text"	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 2.3.1	[command performed successfully]
8	SIM → ME	PROACTIVE SIM SESSION ENDED	[requested icon could not be displayed]



**ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.3.1**

## Logically:

Event list	
Event 1:	Idle screen available
Device identities	
Source device:	Display
Destination device:	SIM

## Coding:

BER-TLV:	D6	07	99	01	05	82	02	02	81
----------	----	----	----	----	----	----	----	----	----

**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
	0F	04	49	64	6C	65	20	56	65	78	74	9E
	02	00	02									

**TERMINAL RESPONSE : SET UP IDLE MODE LIST 2.3.1**

## 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
----------	----	----	----	----	----	----	----	----	----	----	----	----

**TERMINAL RESPONSE: SET UP IDLE MODE LIST 2.3.2**

## 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, no text string)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.4.1	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.4.1	[Icon is not self-explanatory, no text string]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.4.1	
6	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 2.4.1	
7	SIM → ME	PROACTIVE SIM SESSION ENDED	

**ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.4.1**

Logically:

Event list	
Event 1:	Idle screen available
Device identities	
Source device:	Display
Destination device:	SIM

Coding:

BER-TLV:	D6	07	99	01	05	82	02	02	81
----------	----	----	----	----	----	----	----	----	----

**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
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	9E
	02	01	01									

**TERMINAL RESPONSE : SET UP IDLE MODE LIST 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 1, 2, 3 and 4.

## 27.22.4.22.3 SET UP IDLE MODE TEXT (UCS2 support)

## 27.22.4.22.3.1 Definition and applicability

This test is only applicable to ME's that support the SET UP IDLE TEXT proactive SIM facility, the UCS2 display facility and the Cyrillic alphabet.

## 27.22.4.22.3.2 Conformance requirement

The ME shall support the UCS2 display facility as defined in the following technical specifications: 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 and performed the PROFILE DOWNLOAD procedure.

The following events shall have been set up in the ME.

**Event List**

Logically:

Event 1: Idle screen available

## 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	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 3.1.1	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 3.1.1	["Hello" in Russian]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 3.1.1	
6	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 3.1.1	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	

**ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 3.1.1**

Logically:

Event list  
 Event 1: Idle screen available  
 Device identities  
 Source device: Display  
 Destination device: SIM

Coding:

BER-TLV: D6 07 99 01 05 82 02 02 81

**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 LIST 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

**27.22.4.22.3.5 Test Requirement**

The ME shall operate in the manner defined in expected sequence 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

This test is only applicable to ME's that support the RUN AT COMMAND proactive SIM facility.

#### 27.22.4.23.1.2 Conformance requirement

The ME shall support the Proactive SIM: RUN AT COMMAND facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.4.23 (Run AT Command), clause 6.6.23 (Run AT Command), clause 5.2 (Terminal Profile), , clause 6.8 (Terminal Response), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.2 (Alpha Identifier), clause 12.40 (AT Command), clause 12.31 (Icon Identifier), clause 12.41 (AT Response)

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	
7	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 43

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 08 09 10 10 32 54 76 98

Expected Sequence 1.2 (RUN AT COMMAND, null data alpha identifier presented, request IMSI)

Step	Direction	MESSAGE / Action	Comments
1	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	
7	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  
 Alpha identifier: null data object  
 AT Command  
 AT Command string: "AT+CIMI"

Coding:

BER-TLV: D0 14 81 03 01 34 00 82 02 81 82 85  
 00 A8 07 41 54 2B 43 49 4D 49

Expected Sequence 1.3 (RUN AT COMMAND, alpha identifier presented, request IMSI)

Step	Direction	MESSAGE / Action	Comments
1	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"	
7	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  
 0E 52 75 6E 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 to 3.

#### 27.22.4.23.2 RUN AT COMMAND (Icon support)

##### 27.22.4.23.2.1 Definition and applicability

This test is only applicable to ME's that support the RUN AT COMMAND proactive SIM facility.

Additionally this test only is only applicable to ME's that support the icon facility.

##### 27.22.4.23.2.2 Conformance requirement

The ME shall support the Proactive SIM: RUN AT COMMAND facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.4.23 (Run AT Command), clause 6.6.23 (Run AT Command), clause 5.2 (Terminal Profile), , clause 6.8 (Terminal Response), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.2 (Alpha Identifier), clause 12.40 (AT Command), clause 12.31 (Icon Identifier), clause 12.41 (AT Response)

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.

Initial Conditions for Icon Management according to Annex C are valid.

27.22.4.23.2.4.2 Procedure

Expected Sequence 2.1 (RUN AT COMMAND, basic icon self explanatory, request IMSI)

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 Or May give information to user concerning what is happening	
5	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A Or TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed successfully, AT response containing IMSI] or [Command performed but requested icon could not be displayed, 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  
 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  16  81  03  01  34  00  82  02  81  82  A8
           07  41  54  2B  43  49  4D  43  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 08 09 10 10 32 54 76 98

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 08 09 10 10 32 54 76 98

Expected Sequence 2.2 (RUN AT COMMAND, colour icon self explanatory, request IMSI)

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 Or May give information to user concerning what is happening	
5	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A Or TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed successfully, AT response containing IMSI] or [Command performed but requested icon could not be displayed, 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

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  6  81  03  01  34  00  82  02  81  82  A8
           07  41  54  2B  43  49  4D  43  9E  02  00  02
```

## Expected Sequence 2.3 (RUN AT COMAND, basic icon non self-explanatory, request IMSI)

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 Or Display "Basic Icon"	
7	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A Or TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed successfully, AT response containing IMSI] or [Command performed but requested icon could not be displayed, 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  6D  A8
           07  41  54  2B  43  49  4D  43  9E  02  01  01
    
```

Expected Sequence 2.4 (RUN AT COMMAND, colour icon non self-explanatory, request IMSI)

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 Or Display "Colour Icon"	
5	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A Or TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed successfully, AT response containing IMSI] or [Command performed but requested icon could not be displayed, 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(IMG)
    
```

Coding:

```

BER-TLV:  D0  23  81  03  01  34  00  82  02  81  82  85
           0B  43  6F  6C  6F  75  72  20  49  63  6F  6D
           A8  07  41  54  2B  43  49  4D  43  9E  02  01
           02
    
```

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 SS 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:

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 43 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

27.22.4.23.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 1 to 5.

## 27.22.4.24 SEND DTMF

### 27.22.4.24.1 SEND DTMF (Normal)

#### 27.22.4.24.1.1 Definition and applicability

This test is only applicable to ME's that support the SEND DTMF proactive SIM facility.

#### 27.22.4.24.1.2 Conformance requirement

The ME shall support the Proactive SIM: Send DTMF facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1, clause 6.4.24 (Send DTMF), 6.6.24 (Send DTMF), clause 12.12.2 (Additional information for ME problem), clause 5.2 (Terminal Profile), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.2 (Alpa identifier), clause 12.44 (DTMF String).

#### 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.

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, A call has been successfully established before the beginning of the test)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND DTMF 1.1.1	
4	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.	
5	ME → SS	Start DTMF 1.1	["1"]
6	ME		No DTMF sending for 3 seconds +/-20%
7	ME → SS	Start DTMF 1.2	["2"]
8	ME → SIM	TERMINAL RESPONSE : SEND DTMF 1.1.1	[Command performed successfully]
9	SIM → ME	PROACTIVE SIM SESSION ENDED	

**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

Expected Sequence 1.2 (SEND DTMF, containing alpha identifier, a call has been successfully established before the beginning of the test)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND DTMF 1.2.1	
4	ME → USER	Display "Send DTMF"  Do not locally generate audible DTMF tones and play them to the user.	Alpha identifier
5	ME → SS	Start DTMF 1.1	["1"]
6	ME → SS	Start DTMF 1.2	["2"]
7	ME → SS	Start DTMF 1.3	["3"]
8	ME → SS	Start DTMF 1.4	["4"]
9	ME → SS	Start DTMF 1.5	["5"]
10	ME → SS	Start DTMF 1.6	["6"]
11	ME → SS	Start DTMF 1.7	["7"]
12	ME → SS	Start DTMF 1.8	["8"]
13	ME → SS	Start DTMF 1.9	["9"]
14	ME → SS	Start DTMF 1.10	["0"]
15	ME → SIM	TERMINAL RESPONSE : SEND DTMF 1.1.1	[Command performed successfully]
16	SIM → ME	PROACTIVE SIM SESSION ENDED	

**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, a call has been successfully established before the beginning of the test)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND DTMF 1.3.1	Alpha identifier with null data object
4	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.	
5	ME → SS	Start DTMF 1.1	["1"]
6	ME		No DTMF sending for 30 seconds +/-20%
7	ME → SS	Start DTMF 1.2	["2"]
8	ME → SIM	TERMINAL RESPONSE : SEND DTMF 1.1.1	[Command performed successfully]
9	SIM → ME	PROACTIVE SIM SESSION ENDED	

**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 pause "2"

Coding:

BER-TLV: D0 13 81 03 01 14 00 82 02 81 83 85  
 00 AC 06 C1 CC CC CC 2C

Expected Sequence 1.4 (SEND DTMF, mobile is not in a speech call)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.1.1	
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

This test is only applicable to ME's that support the SEND DTMF proactive SIM facility.

Additionally this test is only applicable to ME's that support display of icons.

### 27.22.4.24.2.2 Conformance requirement

The ME shall support the Proactive SIM: Send DTMF facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1, clause 6.4.24 (Send DTMF), 6.6.24 (Send DTMF), clause 12.12.2 (Additional information for ME problem), clause 5.2 (Terminal Profile), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.2 (Alpa identifier), clause 12.44 (DTMF String), clause 12.31 (Icon identifier), clause 6.5.4 (Icon identifiers).

### 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.

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.

See Annex C for coding of the elementary files on SIM.

#### 27.22.4.24.2.4.2 Procedure

##### Expected Sequence 2.1 (SEND DTMF, BASIC ICON)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND DTMF 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display the BASIC-ICON  Do not locally generate audible DTMF tones and play them to the user.	

5	ME → SS	Start DTMF 1.1	["1"]
6	ME		No DTMF sending for 3 seconds +/-20%
7	ME → SS	Start DTMF 1.2	["2"]
8	ME → SIM	TERMINAL RESPONSE : SEND DTMF 1.1.1	[Command performed successfully]
9	SIM → ME	PROACTIVE SIM SESSION ENDED	

### 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  
 DTMF String: "1" pause "2"  
 Icon qualifier: icon is self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

BER-TLV: D0 11 81 03 01 14 00 82 02 81 83 AC  
 02 C1 F2 9E 02 00 01

### DTMF Request 2.1.1

Logically:

DTMF String: \$DTMF\_2.1\$ = "C1 F2" (given as example)

### Expected Sequence 2.2 (SEND DTMF, COLOUR-ICON)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND DTMF 2.2.1	[COLOUR-ICON]
4	ME → USER	Display the COLOUR-ICON  Do not locally generate audible DTMF tones and play them to the user.	
5	ME → SS	Start DTMF 1.1	["1"]
6	ME		No DTMF sending for 3 seconds +/-20%
7	ME → SS	Start DTMF 1.2	["2"]
8	ME → SIM	TERMINAL RESPONSE : SEND DTMF 1.1.1	[Command performed successfully]
9	SIM → ME	PROACTIVE SIM SESSION ENDED	

**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  
 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 11 81 03 01 14 00 82 02 81 83 AC  
 02 C1 F2 9E 02 00 02

Expected Sequence 2.3 (SEND DTMF, Alpha identifier & BASIC-ICON, not self-explanatory)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND DTMF 2.3.1	[Alpha identifier & BASIC-ICON, not self-explanatory]
4	ME → USER	Display the BASIC-ICON Or Display "Send DTMF"  Do not locally generate audible DTMF tones and play them to the user.	
5	ME → SS	Start DTMF 1.1	["1"]
6	ME		No DTMF sending for 3 seconds +/-20%
7	ME → SS	Start DTMF 1.2	["2"]
8	ME → SIM	TERMINAL RESPONSE : SEND DTMF 2.3.1A Or TERMINAL RESPONSE : SEND DTMF 2.3.1B	[Command performed successfully]  Or [Command performed successfully, but requested icon could not be displayed]
9	SIM → ME	PROACTIVE SIM SESSION ENDED	

**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:

DTMF String: "Send DTMF"

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						

**TERMINAL RESPONSE : SEND DTMF 2.3.1A**

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
----------	----	----	----	----	----	----	----	----	----	----	----	----

**TERMINAL RESPONSE : SEND DTMF 2.3.1B**

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
----------	----	----	----	----	----	----	----	----	----	----	----	----



## 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

This test is only applicable to ME's that support the SEND DTMF proactive SIM facility.

Additionally this test only is only applicable to ME's that support the UCS2 display facility and the Cyrillic alphabet.

## 27.22.4.24.3.2 Conformance requirement

The ME shall support the Proactive SIM: Send DTMF facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.1, clause 6.4.24 (Send DTMF), 6.6.24 (Send DTMF), clause 12.12.2 (Additional information for ME problem), clause 5.2 (Terminal Profile), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.2 (Alpa identifier), clause 12.44 (DTMF String).

Additionally the ME shall support the UCS2 facility as defined in the following technical specifications:

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.

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.

## 27.22.4.24.3.4.2 Procedure

Expected Sequence 3.1 (SEND USSD, call forward unconditional, all bearers, successful, UCS2 text)

Some details of the DTMF protocol have been left out for clarity.

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 3.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND DTMF 3.1.1	
4	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	ME → SS	Start DTMF 1.1	["1"]
6	ME		No DTMF sending for 3 seconds +/-20%
7	ME → SS	Start DTMF 1.2	["2"]
8	ME → SIM	TERMINAL RESPONSE : SEND DTMF 3.1.1	[Command performed successfully]
9	SIM → ME	PROACTIVE SIM SESSION ENDED	

**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  
 Data coding scheme: UCS2 (16bit)  
 Text: "ЗДРАВСТВУЙТЕ"  
 DTMF String: "1" pause "2"

Coding:

BER-TLV:	D0	28	81	03	01	14	00	82	02	81	83	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	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 successfull

Coding:

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

**27.22.4.12.2.5 Test Requirement**

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

**27.22.4.25 LANGUAGE NOTIFICATION****27.22.4.25.1 Definition and applicability**

This test is only applicable to ME's that support the LANGUAGE NOTIFICATION proactive SIM facility.

**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 GSM 11.14 clause 6.4.25, 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	Check that language of ME has 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)**

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: LANGUAGE NOTIFICATION 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : LANGUAGE NOTIFICATION 1.2.1	
4	ME → SIM	TERMINAL RESPONSE : LANGUAGE NOTIFICATION 1.2.1	[Command performed successfully]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	Check that initial language is set again.

**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 01 82 02 81 82

**TERMINAL RESPONSE : LANGUAGE NOTIFICATION 1.2.1**

Logically:

Command details	
Command number:	1
Command type:	LANGUAGE NOTIFICATION
Command qualifier:	“00”
Device identities	
Source device:	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

**27.22.4.25.5 Test Requirement**

The ME shall operate in the manner defined in expected sequence 1 and 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**

This test is only applicable to ME's that support the LAUNCH BROWSER proactive SIM facility.

**27.22.4.26.1.2 Conformance requirements**

The ME shall support the LAUNCH BROWSER Proactive SIM Command as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clauses 6.4.26 and 6.6.26 (Launch browser), clause 12.6 (Commands details), clause 12.7 (device identities), clause 12.48 (URL), clause 13.2 (command tag), clause 12.2 (Alpha Identifier), clause 12.47 (Browser identity), clause 12.49 (Bearer), clause 12.50 (provisioning), clause 12.15 (Text String), clause 12.31 (icon identifier).

**27.22.4.26.1.3 Test Purpose**

To verify that when the ME is in idle state, it launches properly the Wap 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.

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 Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways (“default gateway”)**

**With that default gateway we shall be able to access to an URL different from the default one.**

- **another gateway with an IP address different from the one defined in default Wap parameters.**

**The mobile is in idle mode.**

27.22.4.26.1.4.2 Procedure

Expected Sequence 1.1 (LAUNCH BROWSER, connect to the default URL)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.1.1	
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 Wap parameters and the default URL.	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
9	USER → ME	The user verifies that the default Wap session is properly established. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND : LAUNCH BROWSER 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already used  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 URL  
 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  76  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 used  
 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 1.2 (LAUNCH BROWSER, connect to the specified URL, alpha identifier length=0)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.2.1	
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 used

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 Wap 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 used

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 1.3 (LAUNCH BROWSER, Browser identity, no alpha identifier)



Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.3.1	
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 Wap 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 used

Device identities

Source device: SIM  
 Destination device: ME

Browser Identity default

URL 0

Coding:

BER-TLV: D0 1F 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 used

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, one bearer specified and gateway/proxy identity)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode]
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 A Or TERMINAL RESPONSE : LAUNCH BROWSER 1.4.1 B Or TERMINAL RESPONSE : LAUNCH BROWSER 1.4.1 C	[Command performed successfully]  [Launch browser generic error code – bearer not available]  [Command performed with partial comprehension]
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	If performed successfully: the user verifies that the Wap 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 used

Device identities

Source device: SIM  
 Destination device: ME

URL 0

Bearer GPRS

Gateway/Proxy id

DCS unpacked, 8 bits data  
 Text string abc.def.ghi (different from the default IP address)

Coding:

BER-TLV:	D0	1C	81	03	01	15	00	82	02	81	82	31
	00	32	01	03	0D	0C	04	61	62	63	2E	64
	65	66	2E	67	68	69						

### TERMINAL RESPONSE : LAUNCH BROWSER 1.4.1 A

#### Logically:

##### Command details

Command number:	1
Command type:	LAUNCH BROWSER
Command qualifier:	launch browser, if not already used

##### 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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### TERMINAL RESPONSE : LAUNCH BROWSER 1.4.1 B

#### Logically:

##### Command details

Command number:	1
Command type:	LAUNCH BROWSER
Command qualifier:	launch browser, if not already used

##### Device identities

Source device:	ME
Destination device:	SIM

##### Result

General Result:	Launch browser generic error code
Additional information	Bearer not available

#### Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	02	26
	01											

### TERMINAL RESPONSE : LAUNCH BROWSER 1.4.1 C

## Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already used

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully, with partial comprehension

## Coding:

BER-TLV: 81 03 01 15 00 82 02 82 81 83 01 01

Expected Sequence 1.5 (LAUNCH BROWSER, several bearers specified, gateway/proxy id specified)

Step	Direction	MESSAGE / Action	Comments
0			[ME is in idle mode]
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : LAUNCH BROWSER 1.5.1	[connect to the default URL, "launch browser, if not already launched, several bearers, 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 1.5.1 A Or TERMINAL RESPONSE : LAUNCH BROWSER 1.5.1 B Or TERMINAL RESPONSE : LAUNCH BROWSER 1.5.1 C	[Command performed successfully]  [Launch browser generic error code – bearer not available]  [Command performed with partial comprehension]
7	ME->SS	The ME attempts to connect the default URL.	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
9	USER → ME	If performed successfully: the user verifies that the Wap session is properly established with one of the required bearers. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND : LAUNCH BROWSER 1.5.1

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already used  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 URL: 0  
 Bearer: GPRS, USSD, SMS  
 Gateway/Proxy id  
 DCS: 7 bits default alphabet  
 Text string: abc.def.ghi (different from the default IP address)

Coding:

BER-TLV:	D0	1D	81	03	01	15	00	82	02	81	82	31
	00	32	03	03	02	00	0D	0C	00	61	F1	D8
	45	2E	9B	5D	67	74	1A					

TERMINAL RESPONSE : LAUNCH BROWSER 1.5.1 A

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already used  
 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
----------	----	----	----	----	----	----	----	----	----	----	----	----

TERMINAL RESPONSE : LAUNCH BROWSER 1.5.1 B

## Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already used  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Launch browser generic error code  
 Additional information: Bearer not available

## Coding:

BER-TLV: 81 03 01 15 00 82 02 82 81 83 02 26  
 01

## TERMINAL RESPONSE : LAUNCH BROWSER 1.5.1 C

## Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already used  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully, with partial comprehension

## Coding:

BER-TLV: 81 03 01 15 00 82 02 82 81 83 01 01

## 27.22.4.26.2 LAUNCH BROWSER (Interaction with current session)

## 27.22.4.26.2.1 Definition and applicability

This test is only applicable to ME's that support the LAUNCH BROWSER proactive SIM facility.

## 27.22.4.26.2.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive SIM Command as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clauses 6.4.26 and 6.6.26 (Launch browser), clause 12.6 (Commands details), clause 12.7 (device identities), clause 12.48 (URL), clause 13.2 (command tag), clause 12.2 (Alpha Identifier), clause 12.47 (Browser identity), optional 12.49 (Bearer), optional 12.50 (provisioning), clause 12.15 (Text String), clause 12.31 (icon identifier).

## 27.22.4.26.2.3 Test Purpose

To verify that when the ME is already busy in a Wap session, it launches properly the Wap 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.

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 Wap 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 Wap session, the user navigates in pages different from the URL defined by default in Wap parameters.**

## 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 Wap 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  76  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
```

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 Wap 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 Wap parameters and 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 cannot be retrieved (to verify the previous session has been closed). Then he/she does not end 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  76  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 Wap 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]
8	ME → SIM	TERMINAL RESPONSE : LAUNCH BROWSER 2.3.1	[ME unable to process command – browser unavailable]
9	SIM → ME	PROACTIVE SIM SESSION ENDED	
10	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 used

Device identities

Source device: SIM  
 Destination device: ME  
 URL: empty

Coding:

BER-TLV: D0 0C 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 used

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: ME unable to process command  
 Additional data: Browser unavailable

Coding:

BER-TLV: 81 03 01 15 00 82 02 82 81 83 02 26  
 02

### 27.22.4.26.3 LAUNCH BROWSER (UCS2 support)

#### 27.22.4.26.3.1 Definition and applicability

This test is only applicable to ME's that support the LAUNCH BROWSER proactive SIM facility.

Additionally the following tests only are only applicable to ME's that support the UCS2 display facility and the Cyrillic alphabet.

#### 27.22.4.26.3.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive SIM Command as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clauses 6.4.26 and 6.6.26 (Launch browser), clause 12.6 (Commands details), clause 12.7 (device identities), clause 12.48 (URL), clause 13.2 (command tag), clause 12.2 (Alpha Identifier), clause 12.47 (Browser identity), optional 12.49 (Bearer), optional 12.50 (provisioning), clause 12.15 (Text String), clause 12.31 (icon identifier)

Additionally the ME shall support the UCS2 facility as defined in the following technical specifications: 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.

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 Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")**

**With that default gateway we shall be able to access to an URL different from the default one.**

- **another gateway with an IP address different from the one defined in default Wap parameters.**

The mobile is busy in a Wap session, the user navigates in pages different from the URL defined by default in Wap parameters.

#### 27.22.4.26.3.4.2 Procedure

Expected Sequence 3.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a Wap 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

### 27.22.4.26.4 LAUNCH BROWSER (icons support)

#### 27.22.4.26.4.1 Definition and applicability

This test is only applicable to ME's that support the LAUNCH BROWSER proactive SIM facility.

#### 27.22.4.26.4.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive SIM Command as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clauses 6.4.26 and 6.6.26 (Launch browser), clause 12.6 (Commands details), clause 12.7 (device identities), clause 12.48 (URL), clause 13.2 (command tag), clause 12.2 (Alpha Identifier), clause 12.47 (Browser identity), optional 12.49 (Bearer), optional 12.50 (provisioning), clause 12.15 (Text String), clause 12.31 (icon identifier).

#### 27.22.4.26.4.3 Test Purpose

To verify that the ME performs a proper user confirmation with an icon identifier, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the SIM.

#### 27.22.4.26.4.4 Method of test

##### 27.22.4.26.4.4.1 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.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways (“default gateway”)

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The mobile is busy in a Wap session, the user navigates in pages different from the URL defined by default in Wap parameters.

27.22.4.26.4.4.2 Procedure

Expected Sequence 4.1 (LAUNCH BROWSER, use the existing browser, icon not self explanatory)

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 Or TERMINAL RESPONSE : LAUNCH BROWSER 4.1.1 B	[Command performed successfully]  [ 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.	

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  
 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	6E	2E	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
----------	----	----	----	----	----	----	----	----	----	----	----	----

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	06
----------	----	----	----	----	----	----	----	----	----	----	----	----

Expected Sequence 4.2 (LAUNCH BROWSER, use the existing browser, icon self explanatory)

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 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 Or TERMINAL RESPONSE : LAUNCH BROWSER 4.2.1 B	[Command performed successfully]  [ 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.	

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  73  65  6C  66  20  65  78  70  6C
           61  6E  2E  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

## 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 06

## 27.22.4.27 OPEN CHANNEL

TBD

## 27.22.4.28 CLOSE CHANNEL

TBD

## 27.22.4.29 RECEIVE DATA

TBD

## 27.22.4.30 SEND DATA

TBD

## 27.22.4.31 GET CHANNEL STATUS

TBD

## 27.22.5 DATA DOWNLOAD TO SIM

### 27.22.5 Data Download to SIM

#### 27.22.5.1 SMS-PP Data Download

##### 27.22.5.1.1 Definition and applicability

This test is only applicable to ME's that support the SMS-PP data download proactive SIM facility.

##### 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 GSM 11.14 [15] clause 4.3 (Data download to SIM), 5 (Profile Download), 7.1 (SMS-PP data download), clause 12.1 (Address) clause 12.7 (Device Identities), clause 12.13 (SMS TPDU).

##### 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 (SMS-PP Data Download, General Data Coding, Default Alphabet)

Step	Direction	MESSAGE / Action	Comments
1	ME	The ME shall be in its normal idle mode	[Start a sequence to verify that the ME returns the RP-ACK message back to the system Simulator, if the SIM responds with '90 00']
2	SS → ME	SMS-PP Data Download Message 1.1.1	
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 1.1.2	
5	SIM → ME	SW1 / SW2 of '90 00'	
6	ME → SS	RP-ACK.	

## SMS-PP (Data Download) Message 1.1.1

Logically:

SMS TPDU	SMS-DELIVER
TP-MTI	No more messages waiting for the MS in this SC
TP-MMS	TP-Reply-Path is not set in this SMS-DELIVER
TP-RP	TP-UD field contains only the short message
TP-UDHI	A status report will not be returned to the SME
TP-SRI	
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	Default Alphabet
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	13
TP-UD	"Short Message"

Coding:

BER-TLV	04	03	91	21	43	7F	12	89	10	10	00	00
	00	00	0D	53	F4	5B	4E	07	35	CB	F3	79
	F8	5C	06									

**ENVELOPE: SMS-PP DOWNLOAD 1.1.2**

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 Default Alphabet

TP-SCTS: 01/01/98 00:00:00 +0

TP-UDL 13

TP-UD "Short Message"

Coding:

BER-TLV:	D1	2C	82	02	83	81	06	09	91	11	22	33
	44	55	66	77	F8	8B	1B	04	04	91	21	43
	7F	12	89	10	10	00	00	00	00	0D	53	F4
	5B	4E	07	35	CB	F3	79	F8	5C	06		

## Expected Sequence 1.2 (SMS-PP Data Download, General Data Coding, Default Alphabet, GET RESPONSE, Acknowledgement)

Step	Direction	MESSAGE / Action	Comments
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 1.2.3	
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, Default Alphabet, 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	
4	SIM → ME	PROACTIVE COMMAND PENDING: MORE TIME 1.3.3	[SW1 / SW2 of '91 0B']
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, 8 Bit Alphabet)

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
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	13
TP-UD	"Short Message"

Coding:

BER-TLV:	04	03	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
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 (SMS-PP Data Download, Data Coding / Message Class, Default Alphabet)

Step	Direction	MESSAGE / Action	Comments
1	ME	The ME shall be in its normal idle mode.	
2	SS → ME	SMS-PP Data Download Message 1.5.1.	
3	ME	The ME shall not display the message or alert the user of a short message waiting	
4	ME → SIM	ENVELOPE: SMS-PP DOWNLOAD 1.5.2.	
5	SIM → ME	SW1 / SW2 of '90 00'	
6	ME → SS	RP-ACK	



**SMS-PP (Data Download) Message 1.5.1**

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	Default Alphabet
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:	04	03	91	21	43	7F	F2	89	10	10	00	00
	00	00	0D	53	F4	5B	4E	07	35	CB	F3	79
	F8	5C	06									

**ENVELOPE: SMS-PP DOWNLOAD 1.5.2**

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	Default Alphabet
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	2C	82	02	83	81	06	09	91	11	22	33
	44	55	66	77	F8	8B	1B	04	04	91	21	43

7F F2 89 10 10 00 00 00 00 0D 53 F4  
 5B 4E 07 35 CB F3 79 F8 5C 06

Expected Sequence 1.6 (SMS-PP Data Download, with Data Coding / Message Class, 8 Bit Alphabet)

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
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:	04	03	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
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: 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.

### 27.22.5.2 SMS-CB Data Download

#### 27.22.5.2.1 Definition and applicability

This test is only applicable to ME's that support the SMS-CB Data Download proactive SIM facility.

#### 27.22.5.2.2 Conformance requirement

The ME shall support the Proactive SIM: SMS-CB Data Download facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.3 (Data download to SIM), 5 (Profile Download), clause 7.2 (Cell Broadcast data download), clause 12.5 (Cell Broadcast Page), clause 12.7 (Device Identities).

#### 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.

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 (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: 8 bit data

Message class: No message class

Page Parameter

Total number of pages: 1

Page number: 1

Content of message: "Cell Broadcast"..

Coding:

BER-TLV:	C0	11	10	01	F4	11	43	65	6C	6C	20	42
	72	6F	61	64	63	61	73	74	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20

**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:    8 bit data
      Message class:     No message class
    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
           F4  11  43  65  6C  6C  20  42  72  6F  61  64
           63  61  73  74  20  20  20  20  20  20  20  20
           20  20  20  20  20  20  20  20  20  20  20  20
           20  20  20  20  20  20  20  20  20  20  20  20
           20  20  20  20  20  20  20  20  20  20  20  20
           20  20  20  20  20  20  20  20  20  20  20  20
    
```

Expected Sequence 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		SW1/SW2 '91 0B'
4	ME → SIM	FETCH 1.1	
5	SIM → ME	PROACTIVE COMMAND:MORE TIME 1.1	
6	ME → SIM	TERMINAL RESPONSE	
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 3 (SMS-CB (DATA DOWNLOAD), ME displays message)

Step	Direction	MESSAGE / Action	Comments
1	SS → ME	SMS-CB (DATA DOWNLOAD) 1.2	Message identifier '0C 0C'

**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: "0C0C"  
 Data Coding Scheme  
 Message coding: 8 bit data  
 Message class: No message class  
 Page Parameter  
 Total number of pages: 1  
 Page number: 1  
 Content of message: "Cell Broadcast ".

Coding:

BER-TLV: C0 11 0C 0C F4 11 43 65 6C 6C 20 42  
 72 6F 61 64 63 61 73 74 20 20 20 20  
 20 20 20 20 20 20 20 20 20 20 20 20  
 20 20 20 20 20 20 20 20 20 20 20 20  
 20 20 20 20 20 20 20 20 20 20 20 20  
 20 20 20 20 20 20 20 20 20 20 20 20  
 20 20 20 20

**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: "0C0C"
    Data Coding Scheme
      Message coding:    8 bit data
      Message class:     No message class
    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	0C	0C
	F4	11	43	65	6C	6C	20	42	72	6F	61	64
	63	61	73	74	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20

**27.22.5.2.5 Test Requirement**

The ME shall operate in the manner defined in expected sequences.

**27.22.6 CALL CONTROL BY SIM**

**27.22.6.1 Procedure for Mobile Originated calls**  
**27.22.6.1.1 Definition and applicability**

This test is only applicable to ME's that support the CALL CONTROL SIM facility.

**27.22.6.1.2 Conformance requirement**

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

TS GSM 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 System Simulator and has performed the location update procedure.

The GSM parameters of the system simulator are :

Mobile country Code (MCC) = 1,

Mobile network code (MNC) = 1,

Location Area code (LAC) = 1,

Cell Identity value = 1,

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 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 1.1.1	
3	SIM -> ME	90 00	
4	ME	The ME sets up the call without modification	[Set up call to "+01234567890123456789"

**ENVELOPE CALL CONTROL 1.1.1**

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM

Address  
 TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "01234567890123456789"

Location Information  
 MCC & MNC the mobile country and network code (F110)  
 LAC the location Area Code (1)  
 Cell ID Cell Identity Value (0001)

Coding

```

BER-TLV:  D4  1A  82  02  82  81  86  0B  91  10  32  54
          76  98  10  32  54  76  98  13  07  00  F1  10
          00  01  00  01
  
```

Expected Sequence 1.2 (CALL CONTROL BY SIM , set up call attempt by user, allowed without modification)

Step	Direction	Message / Action	Comments
1	User -> ME	Set up a call to "+01234567890123456789"	
2	ME -> SIM	ENVELOPE CALL CONTROL 1.2.1	
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	The ME sets up the call without modification	[Set up call to "+01234567890123456789"

**ENVELOPE CALL CONTROL 1.2.1**

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM

Address  
 TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "01234567890123456789"

Location Information  
 MCC & MNC the mobile country and network code (F110)  
 LAC the location Area Code (1)  
 Cell ID Cell Identity Value (0001)

Coding

```

BER-TLV:  D4  1A  82  02  82  81  86  0B  91  10  32  54
          76  98  10  32  54  76  98  13  07  00  F1  10
          00  01  00  01
    
```

**CALL CONTROL RESULT 1.2.1**

Logically:

Call control result : '00' = Allowed, no modification

Coding

```

BER-TLV:  00  00
    
```

Expected Sequence 1.3 (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 PENDING	
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 1.3.1	
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 -> SIM	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]
9	ME	The ME sets up the call without modification	[Set up call to "+012340123456"]

**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:

the initial phone number ("+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 1.3.1**

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 Address  
 TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "012340123456"  
 Location Information  
 MCC & MNC the mobile country and network code (F110)  
 LAC the location Area Code (1)  
 Cell ID Cell Identity Value (0001)

Coding

BER-TLV: D4 16 02 02 82 81 06 07 91 10 32  
 04 21 43 65 13 07 00 F1 10 00 01  
 00 01

**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

Expected Sequence 1.4 (CALL CONTROL BY SIM , set up call attempt by user, not allowed)

Step	Direction	Message / Action	Comments
1	User -> ME	Set up a call to "+01234567890123456789"	
2	ME -> SIM	ENVELOPE CALL CONTROL 1.4.1	
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	The ME does not set up the call	

**ENVELOPE CALL CONTROL 1.4.1**

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 Address  
 TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "+01234567890123456789"  
 Location Information  
 MCC & MNC the mobile country and network code (F110)  
 LAC the location Area Code (1)  
 Cell ID Cell Identity Value (0001)

Coding

```

BER-TLV:  D4  1A  82  02  82  81  86  0B  91  10  32  54
           76  98  10  32  54  76  98  13  07  00  F1  10
           00  01  00  01
  
```

**CALL CONTROL RESULT 1.4.1**

Logically:

Call control result : '01' = not Allowed

Coding

```

BER-TLV:  01  00
  
```

Expected Sequence 1.5 (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 PENDING	
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 1.5.1	
5	SIM -> ME	9F 02	
6	ME -> SIM	GET RESPONSE	
7	SIM -> ME	CALL CONTROL RESULT 1.5.1	[Call control result : "Not Allowed"]
8	ME -> SIM	TERMINAL RESPONSE: SET UP CALL 1.5.1	Permanent Problem – Interaction with Call Control by SIM]
9	ME	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: the initial phone number (“+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 1.5.1**

## Logically:

Device identities  
 Source device: ME  
 Destination device: SIM

Address  
 TON: International  
 NPI: “ISDN / telephone numbering plan” or “unknown”  
 Dialling number string “012340123456”

Location Information  
 MCC & MNC the mobile country and network code (F110)  
 LAC the location Area Code (1)  
 Cell ID Cell Identity Value (0001)

## Coding

BER-TLV:	D4	16	02	02	82	81	06	07	91	10	32
	04	21	43	65	13	07	00	F1	10	00	01
	00	01									

**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	
3	SIM -> ME	9F 07	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 1.6.1	[Call control result : "Allowed with modifications", ]
6	ME	The ME sets up the call to "+010203"	

**ENVELOPE CALL CONTROL 1.6.1**

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM

Address  
 TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "01234567890123456789"

Location Information  
 MCC & MNC the mobile country and network code (F110)  
 LAC the location Area Code (1)  
 Cell ID Cell Identity Value (0001)

Coding

```

BER-TLV:  D4  1A  82  02  82  81  86  0B  91  10  32  54
          76  98  10  32  54  76  98  13  07  00  F1  10
          00  01  00  01
  
```

**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

```

Coding:  02  06  86  04  91  10  20  30
  
```

Expected Sequence 1.7 (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 PENDING	
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 1.7.1	
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 -> SIM	TERMINAL RESPONSE: SET UP CALL 1.7.1	[command performed successfully]
9	ME	The ME sets up the call to "+011111111111"	

**PROACTIVE COMMAND : SET UP CALL 1.7.1**



## Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 Address  
 TON: National  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "+012340123456"  
 Location Information  
 MCC & MNC the mobile country and network code (F110)  
 LAC the location Area Code (1)  
 Cell ID Cell Identity Value (0001)

## Coding

BER-TLV:	D4	15	02	02	82	81	06	06	80	FB	21
	43	10	32	13	07	00	F1	10	00	01	00
		01									

**ENVELOPE CALL CONTROL 1.7.1**

## Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 Address  
 TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "012340123456"  
 Location Information  
 MCC & MNC the mobile country and network code (F110)  
 LAC the location Area Code (1)  
 Cell ID Cell Identity Value (0001)

## Coding

BER-TLV:	D4	16	02	02	82	81	06	07	91	10	32
	04	21	43	65	13	07	00	F1	10	00	01
		00									

**CALL CONTROL RESULT 1.7.1**

## Logically:

Call control result : '02' = Allowed with modifications  
 Address  
 TON: National  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "+012340123450"

## Coding

BER-TLV:	02	0A	86	06	07	91	10	11	11	11	11
		11									

**TERMINAL RESPONSE : SET UP CALL 1.7.1**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: Only if not currently busy on another call  
 Device identities  
 Source device: ME  
 Destination device: 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 1.8.1	
3	SIM -> ME	9F 06	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 1.8.1	[Call control result : "Allowed with modifications", ]
6	ME	The ME sets up the emergency call to "112"	

**ENVELOPE CALL CONTROL 1.8.1**

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 Address  
 TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "01234567890123456789"  
 Location Information  
 MCC & MNC the mobile country and network code (F110)  
 LAC the location Area Code (1)  
 Cell ID Cell Identity Value (0001)

Coding

BER-TLV: D4 1A 82 02 82 81 86 0B 91 10 32 54  
 76 98 10 32 54 76 98 13 07 00 F1 10  
 00 01 00 01

**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: 02 05 86 03 81 11 F2

Expected Sequence 1.9 (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	The ME does not send any ENVELOPE CALL CONTROL 1.9.1, set up the emergency call	

Expected Sequence 1.9 (CALL CONTROL BY SIM , set up call attempt by user, allowed with modifications : number in EF<sub>ECC</sub> )

Step	Direction	Message / Action	Comments
1	User -> ME	Set up a call to "+01234567890123456789"	
2	ME -> SIM	ENVELOPE CALL CONTROL 1.9.1	
3	SIM -> ME	9F 06	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 1.9.1	[Call control result : "Allowed with modifications", ]
6	ME	The ME sets up call with the dialled digits "1020". The ME does not set up an emergency call	

**ENVELOPE CALL CONTROL 1.9.1**

Logically:

Device identities	
Source device:	ME
Destination device:	SIM
Address	
TON:	International
NPI:	"ISDN / telephone numbering plan" or "unknown"
Dialling number string	"01234567890123456789"
Location Information	
MCC & MNC	the mobile country and network code (F110)
LAC	the location Area Code (1)
Cell ID	Cell Identity Value (0001)

Coding

BER-TLV: D4 1A 82 02 82 81 86 0B 91 10 32 54  
 76 98 10 32 54 76 98 13 07 00 F1 10  
 00 01 00 01

**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: 02 05 86 03 81 01 02

## 27.22.6.2 Procedure for Supplementary (SS) Services

### 27.22.6.2.1 Definition and applicability

This test is only applicable to ME's that support the CALL CONTROL SIM facility.

The call control by SIM function allows the SIM to determine which supplementary service control strings are used.

#### 27.22.6.2.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

TS GSM 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.

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 call control service is allocated and activated in the SIM Service Table.

##### 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 2.1.1	
3	SIM -> ME	90 00	
4	ME	The ME sends the supplementary service operation with the information as sent to the SIM	

### ENVELOPE CALL CONTROL 2.1.1

Logically:

Device identities

Source device: ME  
Destination device: SIM

Address

TON: Unknown  
NPI: "ISDN / telephone numbering plan" or "unknown"  
Dialling number string: "\*21\*#"

Location Information

MCC & MNC: the mobile country and network code (F110)  
LAC: the location Area Code (1)  
Cell ID: Cell Identity Value (0001)

Coding

BER-TLV: D4 13 82 02 82 81 89 04 81 2A A1 FB  
13 07 00 F1 10 00 01 00 01

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 2.2.1	
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 2.2.1	[Call control result : "Allowed without modifications"]
6	ME	The ME sends the supplementary service operation with the information as sent to the SIM	

**ENVELOPE CALL CONTROL 2.2.1**

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM

Address  
 TON: Unknown  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string: "\*21\*#"

Location Information  
 MCC & MNC: the mobile country and network code (F110)  
 LAC: the location Area Code (1)  
 Cell ID: Cell Identity Value (0001)

Coding

```

BER-TLV:  D4  13  82  02  82  81  89  04  81  2A  A1  FB
           13  07  00  F1  10  00  01  00  01
  
```

**CALL CONTROL RESPONSE 2.2.1**

Logically:

Call control result: Allowed, no modifications

Coding: 00 00

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 2.3.1	
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 2.3.1	[Call control result : "Not Allowed"]
6	ME	The ME does not send the supplementary service operation	

**ENVELOPE CALL CONTROL 2.3.1**

Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 Address  
 TON: Unknown  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string: "\*21\*#"   
 Location Information  
 MCC & MNC: the mobile country and network code (F110)  
 LAC: the location Area Code (1)  
 Cell ID: Cell Identity Value (0001)

Coding

BER-TLV: D4 13 82 02 82 81 89 04 81 2A A1 FB  
 13 07 00 F1 10 00 01 00 01

**CALL CONTROL RESPONSE 2.3.1**

Logically:

Call control result: Not Allowed

Coding: 01 00

Expected Sequence 2.4 (CALL CONTROL BY SIM , send SS, allowed with modifications)

Step	Direction	Message / Action	Comments
1	User -> ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME -> SIM	ENVELOPE CALL CONTROL 2.4.1	
3	SIM -> ME	9F 07	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 2.4.1	[Call control result : "Allowed with modifications"]
6	ME	The ME sends the supplementary service operation with the information as sent by the SIM	

**ENVELOPE CALL CONTROL 2.4.1**

Logically:

Device identities	
Source device:	ME
Destination device:	SIM
Address	
TON:	Unknown
NPI:	“ISDN / telephone numbering plan” or “unknown”
Dialling number string	“*21*#”
Location Information	
MCC & MNC	the mobile country and network code (F110)
LAC	the location Area Code (1)
Cell ID	Cell Identity Value (0001)

Coding

BER-TLV:	D4	13	82	02	82	81	89	04	81	2A	A1	FB
	13	07	00	F1	10	00	01	00	01			

**CALL CONTROL RESPONSE 2.4.1**

Logically:

Call control result	Allowed, with modifications
SS String	
TON	Unknown
NPI	“ISDN / telephone numbering plan”
SS String	“*#21#”

Coding:	02	06	89	04	81	BA	12	FB
---------	----	----	----	----	----	----	----	----

**27.22.6.3 Interaction with Fixed Dialling Number (FDN)****27.22.6.3.1 Definition and applicability**

This test is only applicable to ME's that support both the call control by SIM facility and Fixed Dialling Numbers (FDN).

The call control by SIM facility allows the SIM to use the FDN list of allowed destination MSISDNs.

**27.22.6.3.2 Conformance requirement**

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 9.1.4

**27.22.6.2.3 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.

#### 27.22.6.2.4 method of tests

##### 27.22.6.2.4.1 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 call control service is allocated and activated in the SIM Service Table.

Fixed Dialling Number service is enabled.

##### 27.22.6.2.4.2 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	The ME does not send the ENVELOPE (CALL CONTROL) command to the SIM and 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 3.2.1	
3	SIM -> ME	90 00	
4	ME	The ME sets up the call without modification	[Set up call to "123"]

**ENVELOPE CALL CONTROL 3.2.1**

Logically:

Device identities

Source device: ME

Destination device: SIM

Address

TON Unknown

NPI "ISDN / telephone numbering plan"

Dialling number string "123"

Location Information

MCC &amp; MNC the mobile country and network code (F110)

LAC the location Area Code (1)

Cell ID Cell Identity Value (0001)

Coding:

```

BER-TLV:  D4  12  82  02  82  81  86  03  81  23  F1  13
           07  00  F1  10  00  01  00  01

```

Expected Sequence 3.3 (CALL CONTROL BY SIM , set up a call in EF<sub>F<sub>DN</sub></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 3.3.1	
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 3.3.1	[Call control result : "Allowed without modifications"]
6	ME	The ME sets up the call without modification	[Set up call to "9876"]

**ENVELOPE CALL CONTROL 3.3.1**

Logically:

Device identities

Source device: ME

Destination device: SIM

Address

TON Unknown

NPI "ISDN / telephone numbering plan"

Dialling number string "9876"

Location Information

MCC &amp; MNC the mobile country and network code (F110)

LAC the location Area Code (1)

Cell ID Cell Identity Value (0001)

Coding:

```

BER-TLV:  D4  12  82  02  82  81  86  03  81  89  67  13
           07  00  F1  10  00  01  00  01

```

**CALL CONTROL RESPONSE 3.3.1**

Logically:

Call control result                      Allowed, no modifications

Coding:        00    00

Expected Sequence 3.4 (CALL CONTROL BY SIM , set up a call in EF<sub>F</sub><sub>DN</sub> , Not Allowed)

Step	Direction	Message / Action	Comments
1	User -> ME	The user sets up a call to "9876"	
2	ME -> SIM	ENVELOPE CALL CONTROL 3.4.1	
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 3.4.1	[Call control result : "Not Allowed"]
6	ME	The ME does not set up the call	

**ENVELOPE CALL CONTROL 3.4.1**

Logically:

Device identities

Source device:                      ME

Destination device:                SIM

Address

TON                                      Unknown

NPI                                      "ISDN / telephone numbering plan"

Dialling number string            "9876"

Location Information

MCC &amp; MNC                            the mobile country and network code (F110)

LAC                                      the location Area Code (1)

Cell ID                                 Cell Identity Value (0001)

Coding:

```

BER-TLV:  D4  12  82  02  82  81  86  03  81  89  67  13
           07  00  F1  10  00  01  00  01

```

**CALL CONTROL RESPONSE 3.4.1**

Logically:

Call control result                      Not Allowed

Coding:        01    00

Expected Sequence 3.5 (CALL CONTROL BY SIM , set up a call in EF<sub>F</sub><sub>DN</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 3.5.1	
3	SIM -> ME	9F 07	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 3.5.1	[Call control result : "Allowed with modifications"]
6	ME	The ME sets up the call with data sent by the SIM	[Set up call to "3333"]

**ENVELOPE CALL CONTROL 3.5.1**

Logically:

Device identities	
Source device:	ME
Destination device:	SIM
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Dialling number string	"9876"
Location Information	
MCC & MNC	the mobile country and network code (F110)
LAC	the location Area Code (1)
Cell ID	Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	89	67	13
	07	00	F1	10	00	01	00	01				

**CALL CONTROL RESPONSE 3.5.1**

Logically:

Call control result	Allowed with modifications
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Address value	"3333"

Coding:	02	05	86	03	81	33	33
---------	----	----	----	----	----	----	----

**27.22.6.4 Support of Barred Dialling Number (BDN) service****27.22.6.4.1 Definition and applicability**

This test is only applicable to ME's that support both the call control by SIM facility and Barred Dialling Numbers (BDN).

The call control by SIM facility allows the SIM to use the BDN list of not allowed destination MSISDNs.

**27.22.6.4.2 Conformance requirement**

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 9.1.5.

**27.22.6.2.3 Test Purpose**

To verify that, if Barred Dialling Number service is enabled, the ME checks the number entered through the MMI against  $EF_{BDN}$ .

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.

#### 27.22.6.2.4 method of tests

##### 27.22.6.2.4.1 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 call control service is allocated and activated in the SIM Service Table.

Barred Dialling Number service is enabled.

##### 27.22.6.2.4.2 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 4.1.1	
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 4.1.1	[Call control result : "Not Allowed"]
6	ME	The ME does not set up the call	

#### ENVELOPE CALL CONTROL 4.1.1

Logically:

Device identities

Source device: ME

Destination device: SIM

Address

TON Unknown

NPI "ISDN / telephone numbering plan"

Dialling number string "321"

Location Information

MCC & MNC the mobile country and network code (F110)

LAC the location Area Code (1)

Cell ID Cell Identity Value (0001)

Coding:

```
BER-TLV:  D4  12  82  02  82  81  86  03  81  23  F1  13
           07  00  F1  10  00  01  00  01
```

#### CALL CONTROL RESPONSE 4.1.1

Logically:

Call control result                      Not Allowed

Coding:        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 4.2.1	
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 4.2.1	[Call control result : "Allowed without modifications"]
6	ME	The ME sets up the call without modification	[Set up call to "1234"]

**ENVELOPE CALL CONTROL 4.2.1**

Logically:

Device identities

Source device:                      ME

Destination device:                SIM

Address

TON                                      Unknown

NPI                                        "ISDN / telephone numbering plan"

Dialling number string            "1234"

Location Information

MCC & MNC                            the mobile country and network code (F110)

LAC                                        the location Area Code (1)

Cell ID                                    Cell Identity Value (0001)

Coding:

BER-TLV:    D4    12    82    02    82    81    86    03    81    21    43    13  
                   07    00    F1    10    00    01    00    01

**CALL CONTROL RESPONSE 4.2.1**

Logically:

Call control result                      Allowed, no modifications

Coding:        00     00

Expected Sequence 4.3 (CALL CONTROL BY SIM , set up a call not in EF<sub>BDN</sub> , Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User -> ME	The user sets up a call to "1111"	
2	ME -> SIM	ENVELOPE CALL CONTROL 4.3.1	
3	SIM -> ME	9F 07	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 4.3.1	[Call control result : "Allowed with modifications"]
6	ME	The ME sets up the call with data sent by the SIM	[Set up call to "2222"]

### ENVELOPE CALL CONTROL 4.3.1

Logically:

Device identities

Source device: ME

Destination device: SIM

Address

TON Unknown

NPI "ISDN / telephone numbering plan"

Dialling number string "9876"

Location Information

MCC & MNC the mobile country and network code (F110)

LAC the location Area Code (1)

Cell ID Cell Identity Value (0001)

Coding:

```
BER-TLV:  D4 12 82 02 82 81 86 03 81 11 11 13
           07 00 F1 10 00 01 00 01
```

### CALL CONTROL RESPONSE 4.3.1

Logically:

Call control result Allowed with modifications

Address

TON Unknown

NPI "ISDN / telephone numbering plan"

Address value "2222"

Coding: 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 4.4.1	
3	SIM -> ME	9F 0A	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	CALL CONTROL RESULT 4.4.1	[Call control result : "Allowed with modifications"]
6	ME	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 4.4.1**

Logically:

Device identities

Source device: ME

Destination device: SIM

Address

TON Unknown

NPI "ISDN / telephone numbering plan"

Dialling number string "9876"

Location Information

MCC &amp; MNC the mobile country and network code (F110)

LAC the location Area Code (1)

Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	89	67	13
	07	00	F1	10	00	01	00	01				

**CALL CONTROL RESPONSE 4.4.1**

Logically:

Call control result Allowed with modifications

Address

TON Unknown

NPI "ISDN / telephone numbering plan"

Address value "987654321"

Coding:	02	08	86	06	81	89	67	45	23	F1
---------	----	----	----	----	----	----	----	----	----	----

**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**

This test is only applicable to ME's that support the EVENT: MT Call event driven information.

**27.22.7.1.1.2 Conformance requirement**

The ME shall support the EVENT: MT Call event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.16, 6.8 (Terminal Response), 11, 11.1, 12.25

**27.22.7.1.1.3 Test Purpose**

To verify that the ME informs the SIM the 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 ( MT Call event)

Step	Direction	Message / Action	Behaviour
1	SIM -> ME	PROACTIVE COMMAND 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	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	
11	SS -> ME	CALL SET UP With Withheld CLI	[MT Call Set Up With Withheld CLI]
12	ME -> SIM	ENVELOPE: EVENT DOWNLOAD – MT Call 1.1.3	
13	SS -> ME	CALL DISCONNECT	
14	SS -> ME	CALL SET UP with CLI and sub- address	[MT Call Set Up with CLI and sub-address]
15	ME -> SIM	ENVELOPE: EVENT DOWNLOAD – MT Call 1.1.4	
16	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 90 89 67

**EVENT DOWNLOAD – MT CALL 1.1.3**

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”
Presentation and screening indicator :	Presentation restricted, network provided
Dialling number string	"9876"

Coding:

BER-TLV:	D6	10	19	01	00	82	02	83	81	1C	01	00
	86	04	11	A3	89	67						

TBD waiting for clarification on the GSM 11.14 [15]

**EVENT DOWNLOAD – MT CALL 1.1.4**

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"
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:	D6	19	19	01	00	82	02	83	81	1C	01	00
	86	03	91	89	67	88	88	07	80	50	95	95
	95	95	95									

**27.22.7.1.1.5 Test Requirement**

The behaviour of the test is as defined in ‘Expected Sequence 1.1’.

## 27.22.7.2 Call Connected Event

### 27.22.7.2.1 Call Connected Event (MT and MO call)

#### 27.22.7.2.1.1 Definition and applicability

This test is only applicable to ME's that support the EVENT: Call Connected event driven information.

#### 27.22.7.2.1.2 Conformance requirement

The ME shall support the EVENT: Call Connected event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.16, 6.8 (Terminal Response), 11, 11.2, 12.25

#### 27.22.7.2.1.3 Test Purpose

To verify that the ME informs the SIM the 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

Step	Direction	Message / Action	Behaviour
1	SIM -> ME	PROACTIVE COMMAND PENDING	
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	[MT Call] Ti = 0
6	USER -> ME	Accept Call Set Up	
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 1.1.1	
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

This test is only applicable to ME's that support the EVENT: Call Connected event driven information and the SET UP CALL Proactive SIM Command.

### 27.22.7.2.2.2 Conformance requirement

TS GSM 11.14 [15] clause 11.2.2, 6.4.13, 6.6.12

Additionally the ME shall support the SET UP CALL Proactive SIM Command as defined in the following technical specifications

### 27.22.7.2.2.3 Test Purpose

To verify that the ME informs the SIM the 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

Step	Direction	Message / Action	Behaviour
1	SIM -> ME	PROACTIVE COMMAND PENDING	
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		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

**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: the initial phone number ("+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

This test is only applicable to ME's that support the EVENT: Call Disconnected event driven information.

##### 27.22.7.3.1.2 Conformance requirement

The ME shall support the EVENT: Call Disconnected event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.16, 6.8 (Terminal Response), 11, 11.3, 12.25

##### 27.22.7.3.1.3 Test Purpose

To verify that the ME informs the SIM the 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

Step	Direction	Message / Action	Behaviour
1	SIM -> ME	PROACTIVE COMMAND PENDING	
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	DISCONNECT	[MT DISCONNECT]
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	[MT RELEASE]
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	SS -> ME	RELEASE COMPLETE	[MT RELEASE COMPLETE]
16	ME-> SIM	ENVELOPE: CALL DISCONNECTED 1.1.1	
17	SS -> ME	SETUP	[ incoming call ] Ti=0
18	USER -> ME	Accept Call Set Up	
19	USER -> ME	End Call	
20	ME -> SS	DISCONNECT	[MO DISCONNECT]
21	ME -> SIM	ENVELOPE: CALL DISCONNECTED 1.1.2	
22	SS -> ME	DISCONNECT ACK ???	
23	SS -> ME	SETUP	[ incoming call ] Ti=0
24	USER -> ME	Accept Call Set Up	
25	SS -> ME	DISCONNECT	[MT DISCONNECT + CAUSE : normal call clearing ]
26	ME-> SIM	ENVELOPE: CALL DISCONNECTED 1.1.3	
27	SS -> ME	SETUP	Ti=0
28	USER -> ME	Accept Call Set Up	
29	SS	TX POWER to XX	[RADIO LINK FAILURE]
30	ME-> SIM	ENVELOPE: CALL DISCONNECTED 1.1.4A or 1.1.1B	

**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
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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 1.1.2**

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 01 82 02 83 81 1C 01 80

**EVENT DOWNLOAD – CALL DISCONNECTED 1.1.2**

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 01 82 02 82 81 1C 01 80

**EVENT DOWNLOAD – CALL DISCONNECTED 1.1.3**

## 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 01 82 02 82 81 1C 01 00  
 9A 02 60 90

**EVENT DOWNLOAD – CALL DISCONNECTED 1.1.4A**

Logically:

Event List :	Call Disconnected
Device identities	
Source device:	Network
Destination device:	SIM
Transaction identifier :	
Ti value :	0 (bit 5-7)
Ti flag :	1 (bit 8)
Cause :	radio link failure

Coding:

BER-TLV:	D6	0E	19	01	01	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:	Network
Destination device:	SIM
Transaction identifier :	
Ti value :	0 (bit 5-7)
Ti flag :	0 (bit 8)
Cause :	radio link failure

Coding:

BER-TLV:	D6	0E	19	01	01	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**

This test is only applicable to ME's that support the EVENT: Location Status

**27.22.7.4.1.2 Conformance requirement**

The ME shall support the EVENT: Location Status event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 11.4, 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.

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.

## 27.22.7.4.4.2 Procedure

Expected Sequence 1.1(EVENT DOWNLOAD –LOCATION STATUS)

Step	Direction	Message / Action	Behaviour
1	SIM -> ME	PROACTIVE COMMAND 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	SS		Cell 2 is switched on and cell 1 is switched off
6			ME performs cell reselection to cell 2
7	ME -> SS	Location Updating Request	
8	SS -> ME	Location updating accept	
9	ME -> SIM	ENVELOPE: EVENT DOWNLOAD – Location Status 1.1.1	[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 : normal service  
 Location Information  
 MCC & MNC the mobile country and network code (F110)  
 LAC the location Area Code (2)  
 Cell ID Cell Identity Value (0001)

Coding:

BER-TLV: D6 13 19 01 02 82 02 82 81 1B 01 00  
13 07 00 F1 10 00 02 00 01

#### 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

This test is only applicable to ME's that support the EVENT DOWNLOAD -USER ACTIVITY proactive SIM facility.

##### 27.22.7.5.1.2 Conformance Requirement

The ME shall support the EVENT DOWNLOAD -USER ACTIVITY as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.16 (Set Up Event List), clause 6.8 (Terminal Response), clause 6.6.16, clause 6.11, clause 11 (Event Download), clause 11.5 (User Activity event), clause 12.6 (Commands details), clause 12.25 (Event List).

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 with the following exceptions.

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

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

27.22.7.5.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD -USER ACTIVITY)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1	[set up event list : event User Activity]
2	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1	[command performed successfully]
3	USER	press any key	
4	ME → SIM	ENVELOPE EVENT DOWNLOAD -USER ACTIVITY 1.1	
9	USER	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:

Device identities

Source device: SIM  
 Destination device: ME  
 Event List User Activity

Coding:

BER-TLV: D0 15 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:

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 05 80 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 83 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

This test is only applicable to ME's that support the EVENT: IDLE SCREEN AVAILABLE event driven information.

###### 27.22.7.6.1.2 Conformance requirement

The ME shall support the EVENT: IDLE SCREEN AVAILABLE event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.16, 6.8 (Terminal Response), 11, 11.1, 12.25

## 27.22.7.6.1.3 Test Purpose

To verify that the ME informs the SIM the 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.

## 27.22.7.6.1.4.2 Procedure

## Expected Sequence 1.1 (IDLE SCREEN AVAILABLE)

Step	Direction	MESSAGE / Action	Comments
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	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
4	USER → ME	Select ME idle screen	
5	ME → SIM	ENVELOPE: IDLE SCREEN AVAILABLE 1.1.1	
6	USER → ME	Select ME idle screen	check if no envelope Event Download- idle screen 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: '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 User Activity  
 Device identities  
 Source device: ME  
 Destination device: SIM

## Coding:

BER-TLV: D6 07 19 01 05 82 02 83 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

This test is only applicable to ME's that support the EVENT: Card Reader Status event driven information.

#### 27.22.7.7.1.2 Conformance requirement

The ME shall support the EVENT: Call Card Reader Status event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7 (Event Download), clause 4.9 (Multiple Card), clause 5.2 (Terminal Profile), clause 6.4.16 (Set Up Event List), clause 6.8 (Terminal Response), clause 11 (Event download), clause 11.7 (Card reader status event), clause 12.25 (Event List), clause 12.33 (Card reader status), ANNEX G (Monitoring of events), Annex H (Support of MultipleCard Operation), clause 12.25 (Event list), clause 12.7 (Device identities).

#### 27.22.7.7.1.3 Test Purpose

To verify that the ME informs the SIM the 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 (Card reader 1, card reader attached, no card inserted)

Step	Direction	Message / Action	Behaviour
1	SIM -> ME	PROACTIVE COMMAND 1.1.1 PENDING	
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 0D 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 97

**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 95



**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 17

**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 15

**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 93

**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 91

**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 13

**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 91

**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**

This test is only applicable to ME's that support the EVENT: Card Reader Status event driven information. It must also support the attachment of an additional card reader.

**27.22.7.7.2.2 Conformance requirement**

The ME shall support the EVENT: Call Card Reader Status event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7 (Event Download), clause 4.9 (Multiple Card), clause 5.2 (Terminal Profile), clause 6.4.16 (Set Up Event List), clause 6.8 (Terminal Response), clause 11 (Event download), clause 11.7 (Card reader status event), clause 12.25 (Event List), clause 12.33 (Card reader status), ANNEX G (Monitoring of events), Annex H (Support of MultipleCard Operation), clause 12.25 (Event list), clause 12.7 (Device identities).

**27.22.7.7.2.3 Test Purpose**

To verify that the ME informs the SIM the 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 (Card reader 1, detachable card reader not attached, no card inserted)

Step	Direction	Message / Action	Behaviour
1	SIM -> ME	PROACTIVE COMMAND 1.1.1PENDING	
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 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:   No  
  Card powered:            No

Coding:

BER-TLV:   D6   0A   99   01   06   82   02   82   81   A0   01   93

**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 91

**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 92

**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 90

#### 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

This test is only applicable to ME's that support the EVENT: LANGUAGE SELECTION event driven information.

##### 27.22.7.8.1.2 Conformance requirement

The ME shall support the EVENT: LANGUAGE SELECTION event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.16, 6.8 (Terminal Response), 11, 11.8, 12.25

##### 27.22.7.8.1.3 Test Purpose

To verify that the ME informs the SIM the 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 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.

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 (LANGUAGE SELECTION)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	[set up event list : language selection]
2	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
3	USER → ME	Change the language to german.	
4	ME → SIM	ENVELOPE: LANGUAGE SELECTION 1.1.1	
5	USER → ME	Change the language to english	
6	ME → SIM	ENVELOPE: LANGUAGE SELECTION 1.1.2	check if an envelope Event Download- language selection is sending again to the SIM ( this event is continuously reported)

### 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	83	81	2D	02	64
	65											

## EVENT DOWNLOAD – LANGUAGE SELECTION 1.1.2

Logically:

Event List	Language selection
Device identities	
Source device:	ME
Destination device:	SIM
Language	
Language	'en' → 64 65 (german)

Coding:

BER-TLV:	D6	0B	19	01	07	82	02	83	81	2D	02	65
	6E											

### 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 De finition 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 the following technical specifications:

TS GSM 11.14 [15] clause 4.7 (Event Download), clause 5.2 (Terminal Profile), clause 6.4.16 (Set Up Event List), clause 6.8 (Terminal Response), clause 11 (Event download), clause 11.9 (Browser termination event), clause 12.25 (Event List), clause 12.51 (Browser termination cause), ANNEX G (Monitoring of events), clause 12.7 (Device identities).

#### 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 – Card Reader Status) 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.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.9.1.4.2 Procedure

Expected Sequence 1.1 (Browser termination)

Step	Direction	Message / Action	Behaviour
1	SIM -> ME	PROACTIVE COMMAND 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 , go to an URL, then stop the session and the browser.	
6	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 0D 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

## 27.22.7.10 Data available event

TBD

## 27.22.7.11 Channel status event

TBD

---

## Annex A (normative): The Requirement Table

### A.1 Introduction to the Requirement Table

This Requirement Table (RT) provides a summary of the static requirements of this test specification for the SIM Application Toolkit.

The dynamic requirements are not included for which reason this RT is not a complete RT.

The main purpose with this proforma of static requirements is to provide a means to capture the choices which the manufacturer has made in implementing the equipment. When completed in respect of a particular equipment the tables provide a means to undertake the static assessment of conformity with the standard, and to select the appropriate test cases to be used in dynamically testing the equipment. The selection of test cases is left for the test specification.

The section with static requirements contains all requirements related to this particular specification. Only static requirements needed for the test specification are included. Some static requirements already defined in 11.10-2 [16] are used and new requirements are defined. Static requirements from 11.10-2 [16] are also marked with the original number.

References to items:

For each possible item answer (answer in the support column) within the static requirements tables 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 1: A.2/5 is the reference to the answer of item 5 in table A.2.

Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a clause or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

---

### A.2 Format of the tables

The entries of the static requirement tables are defined as follows:

- In the "Item" column a local entry number for the requirement in the RT is given.
- In the "Description" column a short non-exhaustive description of the requirement is found.
- The "Ref." column references the corresponding clause of base standard or EN 300 607-1 (GSM 11.10-1) [12].
- In the "Status" column the status of the entry, as further detailed in the following clause, is indicated.
- 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 "Values allowed" column contains the values or the ranges of values allowed.
- The "Values supported" column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated.

The "Mnemonic" assigns a symbolic name to the static requirement.

---

## A.3 References to EN

Not used.

---

## A.4 Notations used in the RT

### A.4.1 Status Notations

The "Status" column shows the status of the entries as follows:

M	Mandatory, shall be implemented under all circumstances.
O	Optional, may be provided, but if provided shall be implemented in accordance with the requirements.
O.<n>	This status is used for mutually exclusive or selectable options among a set, in cases where it is mandatory to implement one or more options among a set. The integer <n> refers to a unique group of options within the RT. A footnote under the table in which it is used states explicitly what the requirement is for each numbered group.
C<n>	Conditional number <n>. Reference is made to a Boolean expression under the table with predicates of support answers, which will resolve to either "M", "X", "N", or "O.<n>" for a specific implementation. In all cases "ELSE Not Applicable" is implied, if an ELSE expression is omitted.
N/A	Not applicable.
X	Excluded or Prohibited.

### A.4.2 Support Answer Notations

The "support" column is reserved for completion in respect of a particular implementation. Entries may be:

Yes (or Y or y)	Indicating that the implementation claims to fully implement the EN-R in accordance with the specification. The entry of a "Yes" against an "X" status entry means the equipment does not conform to the standard.
No (or N or n)	Indicating that the implementation does not claim full support of the EN-R in accordance with the specification. The entry "No" against an "M" status entry means the equipment does not conform to the standard.

### A.4.3 Value Allowed Notations

The "Value Allowed" column is reserved for the possible values if the particular implementation contain options for a number/value a set of values or appropriate indications.

Further the "Value Allowed" column may contain the following status:

N/A	Not applicable. Means that the "value" columns are not applicable for the particular options and the "Value Supported" column shall not be stated.
-----	--

### A.4.4 Value Supported Notations

The "Value Supported" column is reserved for completion if the particular implementation contain options for a number/value, a set of values or appropriate indications.

If the "Value Allowed" status is "N/A", no value shall be stated.

## A.5 The Requirement Tables

### A.5.1 Static Requirements, RT

#### A.5.1.1 General Mobile Station Features

TBD

#### A.5.1.2 SIM Application Toolkit mechanism

The supplier of the implementation shall state the support of the implementation for each of the SIM Application Toolkit (SAT) mechanism given in the table below.

TBD

##### A.5.1.2.1 Terminal Profile

The supplier of the implementation shall state the contents of the **TERMINAL PROFILE** used in the Profile Download instruction sent to the SIM as part of the SIM initialisation.

TBD

##### A.5.1.2.2 Proactive commands

The supplier of the implementation shall state which of the proactive commands are supported of the implementation in the table below.

TBD

---

## Annex B (informative): Proactive Command Validation Tables

TBD

## Annex C: Initial Conditions for Icon Management

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

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

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: 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:

BER-TLV:	01	2E	28	11	4F	01	00	00	00	E8	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

#### Record 2:

Logically:

Number of Actual Images Instances: 01  
 Image Instance Width: 08  
 Image Instance Height: 08  
 Image Coding Scheme: 21 (colour image)  
 Image Instance File Identifier: 4F 02(EF<sub>Instance</sub>)  
 Offset into Image Instance File: 00 00  
 Length of Image Instance Data: 00 1F

Coding:

BER-TLV: 01 2E 28 21 4F 02 00 00 00 1F FF FF  
 FF FF FF FF FF FF FF FF

**Record 3:**

Logically:

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

Coding:

BER-TLV: 01 18 10 11 4F 03 00 00 00 32 FF FF  
 FF FF FF FF FF FF FF FF

**Record 4:**

Logically:

Number of Actual Images Instances: 01  
 Image Instance Width: 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:

BER-TLV: 01 08 08 11 4F 04 00 00 00 0A FF FF  
 FF FF FF FF FF FF FF FF

**Record 5:**

Logically:



Number of Actual Images Instances: 01

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

Coding:

BER-TLV: 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:

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

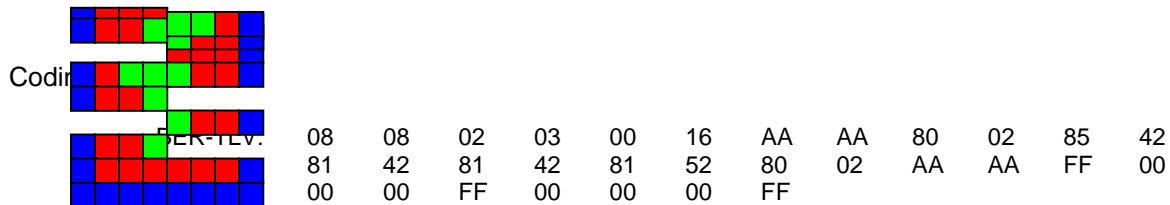
**EF<sub>Instance</sub> (4F02)**

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



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

Logically:

Image Instance Data: see below

Coding:

BER-TLV:	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:

BER-TLV:	08	08	FF	03	A5	99	99	A5	C3	FF
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**EF<sub>Instance</sub> (4F05)**

Logically:

Image Instance Data: see below

Coding:

BER-TLV:	05	05	FE	EB	BF	FF	FF	FF
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**Annex ,D' (normative):  
Details of Test-SIM (TestSIM)**

The TestSIM shall be able to present the following data:

## 1. 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

2. For a successful outcome of the command „Select MasterFile“ the TestSIM shall send SW1/SW2 „9F 1B“
3. 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: Initialised  
 Unlock CHV1 status:  
   False representations remaining: 10  
   RFU-bits 7-5: 000  
   Secret code: Initialised  
 CHV2 status:  
   False representations remaining: 3  
   RFU-bits 7-5: 000  
   Secret code: Initialised  
 Unlock CHV2 status:  
   False representations remaining: 10  
   RFU-bits 7-5: 000  
   Secret code: Initialised  
 RFU bytes 23: 00  
 Reserved for admin. management: 00 83 00 FF  
 Status Words  
   SW1 / SW2: Normal ending of command

## Coding:

BER-TLV:	00	00	02	8D	3F	00	01	00	00	22	FF	01
	0E	9B	02	08	03	00	83	8A	83	8A	00	00
	83	00	FF	90	00							

4. For a successful outcome of the command „Select GSM“ the TestSIM shall send SW1/SW2 „9F 1B“
5. For a successful outcome of the command „Select PLMN“ the TestSIM shall send SW1/SW2 „9F 0F“
6. 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/updaable 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).

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## Annex E (informative): Change History

SPEC	CR	RE	PHA	VERS	SUBJECT	CAT	NEW_VERS
11.10-4	-	96	2+	-	Approved as release 1996 at SMG#30	-	5.0.0
11.10-4	A001	96	2+	5.0.0	Corrections to SIM Application Toolkit Test Specification	F	5.1.0
11.10-4				5.1.0	Version update to 5.1.1 for Publication		5.1.1
11.10-4	A002	96	2+	5.1.0	Editorial and coding corrections	F	5.2.0
11.10-4	A003	96	2+	5.2.0	Correction of wrong coding for SIM Application Toolkit test 27.22.4.2	F	5.3.0
11.10-4	A004	96	2+	5.2.0	Corrections for Test Case 27.22.5.1 (SMS-PP Data Download)	F	5.3.0
Ab.cde	-	99	2+	0.0.0	New document based on Rel 99 with test scenarios redesigned	-	1.0.0
Ab.cde		99	2+	1.0.0	Addition of missing commands (sent for information)	F	1.1.0
Ab.cde		99	2+	1.1.0	Corrections & Addition of missing commands (Ad-Hoc #74)	F	1.2.0
Ab.cde		99	2+	1.2.0	Editorial and coding corrections	F	1.3.0

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