

Source: T3
Title: Draft update to SIM Toolkit Test specification
Document for: Information

This document contains an updated version of the SIM toolkit test specification. It is presented for information with the view to presenting the work for approval at TSG-T #15.

Background

GSM 11.10-4 R96 "SIM Toolkit Test specification" was completed some years ago and tests the requirements given in the SIM Toolkit core specification, GSM 11.14 R96.

Many new features have been added into subsequent releases of GSM 11.14 but up until recently, no resources were available to add new tests into the test specification and bring it into line with the R99 version of GSM 11.14.

This changed with the formation of an ad hoc group within T3 to work on this area. The ad hoc group also came to the conclusion that the test specification could be made easier to follow if it was significantly restructured. The result of this restructuring is attached. Since this could almost be considered to be a new specification, T3 concluded that it should be shown at TSG-T #12.

It should also be noted that for various historical reasons, the GSM 11.10-4 specification comes under the primary responsibility of GERAN5. T3 has suggested to GERAN (see LS in [TP-010236](#)) that since the experts for this work usually attend the T3 meetings rather than the GERAN5 meetings, primary responsibility should be transferred T3. GERAN5 and GERAN plenary endorsed this proposal in principle (see LS in [TP-010237](#)), and, subject to a final review of the new tests and format by GERAN5 in their February 2002 meeting, the work should be available for approval at TSG-T #15 in March 2002.

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Foreword

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

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

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

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 and 1 800 MHz band (GSM 900 and DCS 1 800), 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 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.

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 “”

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

Clause	Title	Applicability
27.22.1	Initialisation of SIM Application Toolkit Enabled SIM by SIM Application Toolkit Enabled ME (Profile Download)	ME supporting SIM Application Toolkit.
27.22.2	Contents of the TERMINAL PROFILE command	ME supporting SIM Application Toolkit.
27.22.3	Servicing of Proactive SIM Commands	ME supporting the Proactive SIM facility.
27.22.4.1	Proactive SIM Command: DISPLAY TEXT	ME supporting the DISPLAY TEXT proactive SIM facility.
27.22.4.2	Proactive SIM Command: GET INKEY	ME supporting the GET INKEY proactive SIM facility.
27.22.4.3	Proactive SIM Command: GET INPUT	ME supporting the GET INPUT proactive SIM facility.
27.22.4.4	Proactive SIM Command: MORE TIME	ME supporting the MORE TIME proactive SIM facility.
27.22.4.5	Proactive SIM Command: PLAY TONE	ME supporting the PLAY TONE proactive SIM facility.
27.22.4.6	Proactive SIM Command: POLL INTERVAL	ME supporting the POLL INTERVAL proactive SIM facility.
27.22.4.7	Proactive SIM Command: REFRESH	ME supporting the REFRESH proactive SIM facility.
27.22.4.8	Proactive SIM Command: SET UP MENU	ME supporting the SET UP MENU proactive SIM facility.
27.22.4.9	Proactive SIM Command: SELECT ITEM	ME supporting the SELECT ITEM proactive SIM facility.
27.22.4.10	Proactive SIM Command: SEND SHORT MESSAGE	ME supporting the SEND SHORT MESSAGE proactive SIM facility.
27.22.4.11	Proactive SIM Command: SEND SS	ME supporting the SEND SS proactive SIM facility.
27.22.4.12	Proactive SIM Command: SEND USSD	ME supporting the SEND USSD proactive SIM facility.
27.22.4.13	Proactive SIM Command: SET UP CALL	ME supporting the SET UP CALL proactive SIM facility.
27.22.4.14	Proactive SIM Command: POLLING OFF	ME supporting the POLLING OFF proactive SIM facility.
27.22.4.15	Proactive SIM Command: PROVIDE LOCAL INFORMATION	ME supporting the PROVIDE LOCAL INFORMATION proactive SIM facility.
27.22.4.16	Proactive SIM Command SET UP EVENT LIST	ME supporting the SET UP EVENT LIST SIM facility
27.22.4.17	Proactive SIM command PERFORM CARD APDU	ME supporting the PERFORM CARD APDU SIM facility
27.22.4.18	Proactive SIM command POWER OFF CARD	ME supporting the POWER OFF CARD SIM facility
27.22.4.19	Proactive SIM command POWER ON CARD	ME supporting the POWER ON CARD SIM facility
27.22.4.20	Proactive SIM command GET READER STATUS	ME supporting the GET READER STATUS SIM facility
27.22.4.21	Proactive SIM command TIMER MANAGEMENT	ME supporting the TIMER MANAGEMENT SIM facility
27.22.4.22	Proactive SIM command SET UP IDLE MODE TEXT	ME supporting the SET UP IDLE MODE TEXT SIM facility
27.22.4.23	Proactive SIM command RUN AT COMMAND MANAGEMENT	ME supporting the RUN AT COMMAND SIM facility
27.22.4.24	Proactive SIM command SEND DTMF	ME supporting the SEND DTMF SIM facility
27.22.4.25	Proactive SIM command LANGUAGE NOTIFICATION	ME supporting the LANGUAGE NOTIFICATION SIM facility
27.22.4.26	Proactive SIM command LAUNCH BROWSER	ME supporting the LAUNCH BROWSER SIM facility
27.22.4.27	Proactive SIM command OPEN CHANNEL	ME supporting the OPEN CHANNEL SIM facility
27.22.4.28	Proactive SIM command CLOSE CHANNEL	ME supporting the CLOSE CHANNEL SIM facility
27.22.4.29	Proactive SIM command RECEIVE DATA	ME supporting the RECEIVE DATA SIM facility

27.22.4.30	Proactive SIM command SEND DATA	ME supporting the SEND DATA SIM facility
27.22.4.31	Proactive SIM command GET CHANNEL STATUS	ME supporting the GET CHANNEL STATUS SIM facility
27.22.5	Data Download to SIM	ME supporting the data download facility.
27.22.5.1	SMS-PP Data Download	ME supporting the SMS-PP data download facility.
27.22.5.2	SMS-CB Data Download	ME supporting the SMS-CB data download facility.
27.22.5.3	Menu Selection	ME supporting the Menu Selection facility.
27.22.6.1	Call control: Procedure for mobile originated calls	ME supporting the call control by SIM facility.
27.22.6.2	Call control: Procedure for Supplementary Services	ME supporting the call control by SIM facility.
27.22.6.3	Call control: Interaction with Fixed Dialling Number	ME supporting both the call control by SIM facility and Fixed Dialling Numbers (FDN)
27.22.6.4	Call control: Support of Barred Dialling number (BDN) service	ME supporting both the call control by SIM facility and Barred Dialling Numbers (BDN).
27.22.7	Timer Expiration	ME supporting the Timer expiration SIM facility
27.22.8	Event Download	ME supporting the Event download SIM facility
27.22.8.1	MT call event	ME supporting the MT call event SIM facility
27.22.8.2	Call connected event	ME supporting the Call connected event SIM facility
27.22.8.3	Call disconnected event	ME supporting the Call disconnected event SIM facility
27.22.8.4	Location status event	ME supporting the Location status event SIM facility
27.22.8.5	User activity event	ME supporting the User activity event SIM facility
27.22.8.6	Idle screen available event	ME supporting the Idle screen available event SIM facility
27.22.8.7	Card reader status event	ME supporting the Card reader event SIM facility
27.22.8.8	Language selection event	ME supporting the Language selection event SIM facility
27.22.8.9	Browser Termination event	ME supporting the Browser Termination event SIM facility
27.22.8.10	Data available event	ME supporting the Browser Termination event SIM facility
27.22.8.11	Channel status event	ME supporting the Browser Termination event SIM facility

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

This section details the core specification requirements being tested and includes any 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 the test.

27.22.X.X. 1.4.2 Procedure

This section details the test procedure.

- 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_{Phase} (SIM Phase Identification)

Logically: Phase 2+

Coding: '03'

EF_{IMSI} (International Mobile Subscriber Identity)

Logically:

Length: 8 bytes
 IMSI: 001 01 0123456789

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

EF_{CBMI} (Cell Broadcast Message Identifier)

Logically:

Cell Broadcast Message Identifier 1: '0C 0C'

Coding: 0C 0C FF .. FF

EF_{CBMID} (Cell Broadcast Message Identifier for Data Download)

Logically:

Cell Broadcast Message Identifier 1: '10 01'

Coding: 10 01 FF .. FF

EF_{FDN} (Fixed Dialling Numbers)

Logically:

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_{BDN} (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_{ECC} (Emergency Call Codes)

Logically:

Emergency Call Code 1: '1020'

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

EF_{SMSP} (Short message service parameters)

Logically:

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

Coding:	B1	B2	B3	...	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23
Record 1:	FD	FF	FF	...	FF	09	91	11	22	33	44	55	66	77	F8
	B24	B25	B26	B27	B28										
	FF	FF	FF	FF	FF										

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_{Phase}. 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_{IMSI} or EF_{LOCI}, 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	TERMINAL PROFILE 1.1A	
11	SIM → ME	NORMAL ENDING OF COMMAND 1.1A	
...			
12	ME → SIM	SELECT EF IMSI or SELECT EF LOCI	

VERIFY CHV1 1.1A

Logically:

Coding: XX ...

VERIFY CHV1 ATTEMPT UNSUCCESSFUL 1.1A

Logically:

Coding: XX ...

VERIFY CHV1 1.1B

Logically:

Coding: XX ...

NORMAL ENDING OF COMMAND 1.1A

Logically:

Coding: XX ...

TERMINAL PROFILE 1.1A

Logically:

Coding: XX ...

SELECT EF IMSI 1.1A

Logically:

Coding: XX ...

SELECT EF LOCI 1.1A

Logically:

Coding: XX ...

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 RESPONSE 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	

4	SIM → ME	PROACTIVE COMMAND : DISPLAY TEXT 1.2.1	[Normal priority]
5	ME → USER	No change of the currently being used display.	
6	ME → SIM	TERMINAL RESPONSE : DISPLAY TEXT 1.2.1	[ME currently unable to process command - screen busy]
7	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : DISPLAY TEXT 1.2.1 : same as 1.1.1
 TERMINAL RESPONSE : DISPLAY TEXT 1.2.1

Logically:

Command details

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

Device identities

Source device: ME
 Destination device: SIM

Result

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

Coding:

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

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

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

PROACTIVE COMMAND : DISPLAY TEXT 1.3.1

Logically:

Command details
 Command number: 1
 Command type: DISPLAY TEXT
 Command qualifier: high priority, wait for user to clear message
 Device identities
 Source device: SIM
 Destination device: Display
 Text String
 Data coding scheme: unpacked, 8 bit data
 Text: "Toolkit Test 2"

Coding:

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

TERMINAL RESPONSE : DISPLAY TEXT 1.3.1

Logically:

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

Coding:

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

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

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

PROACTIVE COMMAND : DISPLAY TEXT 1.4.1

Logically:

Command details
 Command number: 1
 Command type: DISPLAY TEXT
 Command qualifier: normal priority, wait for user to clear message
 Device identities
 Source device: SIM
 Destination device: Display
 Text string
 Data coding scheme: packed, SMS default alphabet
 Text: "Toolkit Test 3"

Coding:

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

TERMINAL RESPONSE : DISPLAY TEXT 1.4.1

Logically:

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

Coding:

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

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

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

PROACTIVE COMMAND : DISPLAY TEXT 1.5.1

Logically:

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

Device identities
 Source device: SIM
 Destination device: Display

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

Coding:

```

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

TERMINAL RESPONSE : DISPLAY TEXT 1.5.1

Logically:

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

Device identities
 Source device: ME
 Destination device: SIM

Result
 General Result: Command performed successfully

Coding:

```

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

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND	
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 : DISPLAY TEXT 1.9.1	[Command data not understood by ME (clause 6.5.4)]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : DISPLAY TEXT 1.9.1

Logically:

Command details

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

Device identities

Source device: SIM
 Destination device: Display

Text string

Contents: null data object

Icon Identifier:

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

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.

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.

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	
2	ME → SIM	PENDING: DISPLAY TEXT 2.1.1	
3	SIM → ME	PROACTIVE COMMAND :	
4	ME → USER	DISPLAY TEXT 2.1.1 Display “<TIME-OUT>”	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
6	ME → SIM	TERMINAL RESPONSE :	
7	SIM → ME	DISPLAY TEXT 2.1.1 PROACTIVE SIM SESSION ENDED	[No response from user]

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

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

TS GSM 11.14 [15] clause 6.1, 6.4.1.

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

The ME shall support the Proactive SIM: Sustained Display Text facility as defined in the following technical specifications :

TS GSM 11.14 [15] clause 6.1, 6.4.1.

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

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

TS GSM 11.14 [15] clause 6.1, 6.4.1.

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_(IMG)

Coding:

```

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

TERMINAL RESPONSE : DISPLAY TEXT 5.1.1

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_(IMG)

Coding:

```

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

TERMINAL RESPONSE : DISPLAY TEXT 5.2.1

TBD

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(IMG)
    
```

Coding:

```

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

TERMINAL RESPONSE : DISPLAY TEXT 5.3.1

TBD

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 (UCS2 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.

27.22.4.1.6.2 Conformance requirement

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

TS GSM 11.14 [15] clause 6.1, 6.4.1.

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 80 82 02 82 81 83 01 00 8D02 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 80 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: 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: "q"

Coding:

BER-TLV: 81 03 01 22 80 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	[characters from SMS default alphabet, 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	6E	73	74	72	75	63	74
73	20	74	68	65	20	4D	45	20	74	6F	20
64	69	73	70	6C	61	79	20	74	65	78	74
2C	20	61	6E	64	20	74	6F	20	65	78	70
65	63	74	20	74	68	65	20	75	73	65	72
20	74	6F	20	65	6E	74	65	72	20	61	20
73	69	6E	67	6C	65	20	63	68	61	72	61
63	74	65	72	2E	20	41	6E	79	20	72	65
73	70	6F	6E	73	65	20	65	6E	74	65	72
65	64	20	62	79	20	74	68	65	20	75	73
65	72	20	73	68	61	6C	6C	20	62	65	20
70	61	73	73	65	64	20	74				

TERMINAL RESPONSE : GET INKEY 1.6.1

Logically:

Command details	
Command number:	1
Command type:	GET INKEY
Command qualifier:	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	“x”

Coding:

BER-TLV:	81	03	01	22	80	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.

Additionally this test is only applicable to ME's that support the ability to decide that no user response has been received after a GET INKEY has been displayed for a reasonable length of time.

27.22.4.2.2.2 Conformance Requirement

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

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

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.

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	[digits only, no help information available] Text string coding in unpacked format after a delay [No response from user]
2	ME → SIM	PENDING: GET INKEY 2.1.1 FETCH	
3	SIM → ME	PROACTIVE COMMAND : GET INKEY 2.1.1	
4	ME → USER	Display "<TIME-OUT>"	
5	USER	Waiting and no completion	
6	ME → SIM	TERMINAL RESPONSE : GET INKEY 2.1.1	
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 only if ME's support the GET INKEY proactive SIM facility and the UCS2 coding Display facility.

27.22.4.2.3.2 Conformance Requirement

The ME shall support the Proactive SIM: GET INKEY facility including the "No response from user" result value as defined in the following technical specifications :

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

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

PROACTIVE COMMAND : GET INKEY 3.1.1

Logically:

Command details

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

Device identities

Source device: SIM
 Destination device: ME

Text string

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

Coding:

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

TERMINAL RESPONSE : GET INKEY 3.1.1

Logically:

Command details

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

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command performed successfully
 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.

27.22.4.2.4.2 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 6.6.2 (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).

Additionally this test only if ME's support the GET INKEY proactive SIM facility and UCS2 format of entry facility. 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 PENDING: GET INKEY 4.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : GET INKEY 4.1.1	[characters from UCS2 alphabet, no help information available]
4	ME → USER	Display "Enter"	
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 111B 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

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 6.6.2 (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 12.13 (Default text).

27.22.4.2.5.3 Test Purpose

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

27.22.4.2.5.4 Method of Test

27.22.4.2.5.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default 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

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 6.6.2 (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).

27.22.4.2.6.3 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_{img})

Coding:

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

TERMINAL RESPONSE : GET INKEY 6.1.1A

Logically:

Command details

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

Device identities

Source device: 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 6.1.1B

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_{Img})

Coding:

BER-TLV: D0 1C 81 03 01 22 00 82 02 81 82 8D
 0D 04 3C 42 41 53 49 43 2D 49 43 4F 4N 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 8D02 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_{Img})

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 4N 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 _{Img})

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	4N	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

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 "+"	Text string coding in unpacked format
13	ME → USER	Display "Enter "+"	Repetition of get inkey
14	USER → ME	Enter the input "+" and completion	
15	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

TBD

TERMINAL RESPONSE : GET INKEY 7.1.2

TBD

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

Coding:

BER-TLV: 81 03 01 21 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*#+"	
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

Coding:

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

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

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

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

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 Text string coding in unpacked format
5	USER → ME	Completion without input	
6	MMI ->USER	Display "invalid length"	
7	USER ->ME	Enter "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

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

PROACTIVE COMMAND : GET INPUT 1.6.1

Logically:

Command details

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

Device identities

Source device: SIM
 Destination device: ME

Text string

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

Response length

Minimum length: 0
 Maximum length: 8

Coding:

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

TERMINAL RESPONSE : GET INPUT 1.6.1

Logically:

Command details

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

Device identities

Source device: ME
 Destination device: SIM

Result

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

Coding:

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

Expected Sequence 1.7 (GET INPUT, 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 1.7.1	
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###**777 777777###**8888888888### **9999999999###**0000000 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###**777 777777###**8888888888### **9999999999###**0000000 00###" and completion	
6	ME → SIM	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###**444444444
 4###**5555555555###**6666666666###**7777777777###**88888
 8888###**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

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

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.

Additionally this test is only applicable to ME's that support the ability to decide that no user response has been received after a GET INPUT has been displayed for a reasonable length of time.

27.22.4.3.2.2 Conformance Requirement

The ME shall support the Proactive SIM: GET INPUT facility including the "No response from user" result value as defined in the following technical specifications :

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.3 (Get Input), clause 6.6.3 (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).

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.

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]

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: Command performed successfully

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 only if ME's support the GET INPUT proactive SIM facility and the UCS2 coding Display facility.

27.22.4.3.3.2 Conformance Requirement

The ME shall support the Proactive SIM: GET INPUT facility including the "No response from user" result value as defined in the following technical specifications :

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.3 (Get Input), clause 6.6.3 (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).

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

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

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 only if ME's support the GET INPUT proactive SIM facility and UCS2 format of entry facility.

27.22.4.3.4.2 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 6.6.3 (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).

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

Coding:

BER-TLV: 81 03 01 23 03 82 02 82 81 83 01 00
 8D 19 08 04 17 04 14

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

Coding:

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

27.22.4.3.4.5 Test Requirement

The 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

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 6.6.3 (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).

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

Coding:

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

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	
2	ME → SIM	PENDING: GET INPUT 5.2.1	
3	SIM → ME	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####**99999999 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
    
```

Coding:

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

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

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 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>"
Icon Identifier	
Icon qualifier:	self-explanatory
Icon identifier:	1 (number of record in EF _{Img})

Coding:

BER-TLV: TBD

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	"+"

Coding:

BER-TLV: TBD

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:	"+"

Coding:

BER-TLV: TBD

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>"

Icon Identifier

Icon qualifier: not self-explanatory
 Icon identifier: 1 (number of record in EF_{Img})

Coding:

BER-TLV: TBD

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: "+"

Coding:

BER-TLV: 81 03 01 22 00 82 02 82 81 83 01 00 8D06 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: “+”

Coding:

BER-TLV: TBD

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>"
Icon Identifier	
Icon qualifier:	self-explanatory
Icon identifier:	2 (number of record in EF _{img})

Coding:

BER-TLV: TBD

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:	"+"

Coding:

BER-TLV: TBD

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:	"+"

Coding:

BER-TLV: TBD

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>"

Icon Identifier

Icon qualifier: not self-explanatory
 Icon identifier: 2 (number of record in EF_{Img})

Coding:

BER-TLV: TBD

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: "+"

Coding:

BER-TLV: TBD

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: “+”

Coding:

BER-TLV: TBD

Expected Sequence 6.5 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : GET INPUT 6.5.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display <i>an Icon</i>	Range of expected length is 5-5 Basic Icon , self-explanatory
5	USER → ME	Enter the input “12345” and completion	
6	ME → SIM	TERMINAL RESPONSE : GET INPUT 6.5.1	[command performed successfully]

PROACTIVE COMMAND : GET INPUT 6.5.1

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: “icon”

Response length

Minimum length: 5
 Maximum length: 5

Icon Identifier

Icon qualifier: self-explanatory
 Icon identifier: 1 (number of record in EF IMG)

Coding:

BER-TLV: TBD

TERMINAL RESPONSE : GET INPUT 6.5.1

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

Coding:

BER-TLV: TBD

Expected Sequence 6.6 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
7	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 6.6.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND : GET INPUT 6.6.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
10	ME → USER	Display "Enter" Display <i>an icon</i>	Range of expected length is 5-5 Basic icon, not self-explanatory
11	USER → ME	Enter the input "12345" and completion	
12	ME → SIM	TERMINAL RESPONSE : GET INPUT 6.6.1	[command performed successfully]

PROACTIVE COMMAND : GET INPUT 6.6.1

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: "Enter"

Response length

Minimum length: 5
 Maximum length: 5

Icon Identifier

Icon qualifier: not self-explanatory
 Icon identifier: 1 (number of record in EF IMG)

Coding:

BER-TLV: TBD

TERMINAL RESPONSE : GET INPUT 6.6.1

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:	Command performed successfully
-----------------	--------------------------------

Coding:

BER-TLV: TBD

27.22.4.3.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 1 to 6.

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

PROACTIVE COMMAND : MORE TIME 1.1.1

Logically:

Command details

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

Device identities

Source device: SIM
 Destination device: ME

Coding:

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

TERMINAL RESPONSE : MORE TIME 1.1.1

Logically:

Command details

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

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

27.22.4.4.5 Test Requirement

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

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"	
67	ME → SIM	Play a ME proprietary general beep TERMINAL RESPONSE : PLAY TONE 1.1.11a Or TERMINAL RESPONSE : PLAY TONE 1.1.11b	[Command performed successfully] or [Command beyond ME's capabilities]
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"	
73	ME → SIM	Play a ME proprietary positive acknowledgement tone TERMINAL RESPONSE : PLAY TONE 1.1.12a or TERMINAL RESPONSE : PLAY TONE 1.1.12b	[Command performed successfully] or [Command beyond ME's capabilities]
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"	
79	ME → SIM	Play a ME proprietary negative acknowledgement tone 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"	
85	ME → SIM	Play a ME proprietary general beep 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 intervalls 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

TBD

27.22.4.8 SET UP MENU

TBD

27.22.4.9 SELECT ITEM

TBD

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 :1.1.1: SEND SHORT MESSAGE

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 :1.2.1: SEND SHORT MESSAGE

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												
TP-RD												
TP-VPF												
TP-RP	TP-Reply-Path is not set											
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	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 :1.3.1: SEND SHORT MESSAGE

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 :1.4.1: SEND SHORT MESSAGE

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 :1.5.1: SEND SHORT MESSAGE

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 :1.6.1: SEND SHORT MESSAGE

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 :1.7.1: SEND SHORT MESSAGE

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 :1.8.1: SEND SHORT MESSAGE

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.

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)

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 :2.1.1: SEND SHORT MESSAGE

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

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)

27.22.4.10.3.3 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 :3.1.1: SEND SHORT MESSAGE

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	3B	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	0C	54	65
	73	74	20	4D	65	73	73	61	67	65	1E	02
	01	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 :3.2.1: SEND SHORT MESSAGE

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	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	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	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

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 and performed the PROFILE DOWNLOAD procedure.

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	SS REQUEST 1.1	
6	SS → ME	SS RETURN RESULT 1.1.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND SS 1.1.1	

PROACTIVE COMMAND 1.1.1: SEND SS

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							

SS REQUEST 1.1

Logically: TBD

SS RETURN RESULT 1.1

Logically: TBD

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: TBD
 Parameters: TBD

Coding: TBD

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	[Unsuccessful]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	SS REQUEST 1.1	
6	SS → ME	SS RETURN RESULT 1.2	
7	ME → SIM	TERMINAL RESPONSE : SEND SS 1.2.1	

SS RETURN RESULT 1.2

Logically:

TBD

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: Command performed successfully

Additional information

Operation Code: TBD
 Parameters: TBD

Coding: TBD

Expected Sequence 1.3 (SEND SS, call forward unconditional, all bearers, network currently unable to process command)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	[Network currently unable to process command]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND SS 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	SS REQUEST 1.1	
6	SS → ME	SS RETURN RESULT 1.3.	
7	ME → SIM	TERMINAL RESPONSE : SEND SS 1.3.1	

SS RETURN RESULT 1.3

Logically: TBD

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: Network currently unable to process command

Additional information

Operation Code: TBD
 Parameters: TBD

Coding: TBD

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	SS REQUEST 1.4	
6	SS → ME	SS RETURN RESULT 1.4	[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								

SS REQUEST 1.4

Logically: TBD

SS RETURN RESULT 1.4

Logically: TBD

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: TBD
 Parameters: TBD

Coding: TBD

Expected Sequence 1.5 (SEND SS, retrieve CLI 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"	
4	ME → SS	SS REQUEST 1.5	
5	SS → ME	SS RETURN RESULT 1.5	[Successful]
6	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: Unknown
 NPI: ISDN / telephone numbering plan
 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
	81	BA	13	FB								

SS REQUEST 1.5

Logically: TBD

SS RETURN RESULT 1.5

Logically: TBD

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: TBD
 Parameters: TBD

Coding: TBD

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 1.6.11	
4	ME	Should not give any information to the user on the fact that the ME is sending an SS request	
5	ME → SS	SS REQUEST 1.6	
6	SS → ME	SS RETURN RESULT 1.6	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND SS 1.6.1	

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
    
```

SS REQUEST 1.6

Logically: TBD

SS RETURN RESULT 1.1

Logically: TBD

TERMINAL RESPONSE : SEND SS 1.6.1

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:	TBD
Parameters:	TBD

Coding: TBD

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 ME's that support the icon facility.

unachieve27.22.4.11.2.2 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).

27.22.4.11.2.3 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

See annex C

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	SS REQUEST 2.1.1	
6	SS → ME	SS RETURN RESULT 2.1.1	[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_(IMG)

Coding:

```

BER-TLV:  D0  1D  81  03  01  11  00  82  02  81  83  89
           0E  91  AA  12  0A  21  43  65  87  09  21  43
           65  87  B9  9E  02  00  01
    
```

SS REQUEST 2.1

Logically: TBD

SS RETURN RESULT 2.1

Logically: TBD

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: TBD
 Parameters: TBD

Coding: TBD

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: x
 Parameters: x

Coding: TBD

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	SS REQUEST 2.1	
6	SS → ME	SS RETURN RESULT 2.1	[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_(IMG)

Coding:

```

BER-TLV:  D0  1D  81  03  01  11  00  82  02  81  83  89
           0E  91  AA  12  0A  21  43  65  87  09  21  43
           65  87  B9  9E  02  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	SS REQUEST 2.1	
6	SS → ME	SS RETURN RESULT 2.1	[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_(IMG)

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 _(IMG)

Coding:

BER-TLV:	D0	1D	81	03	01	11	00	82	02	81	83	89
	0E	91	AA	12	0A	21	43	65	87	09	21	43
	65	87	B9	9E	02	01	01					

TERMINAL RESPONSE : SEND SS 2.4.1

Logically:

Command details	
Command number:	1
Command type:	SEND SS
Command qualifier:	"00"
Device identities	
Source device:	ME
Destination device:	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 .

27.22.4.12 SEND USSD

27.22.4.12.1 SEND USSD (normal)

27.22.4.12.1.1 Definition and applicability

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

27.22.4.12.1.2 Conformance requirement

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

TS GSM 11.14 [15] clause 6.1, 6.4.12,

If the command is rejected because the ME is busy on a USSD transaction, the ME informs the SIM using TR (ME unable to process command – currently busy on USSD transaction).[This is not tested here].

If the command is rejected because the ME is busy on a SS transaction, the ME informs the SIM using TR (ME unable to process command – currently busy on SS transaction).[This is not tested here].

27.22.4.12.1.3 Test Purpose

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

27.22.4.12.1.4 Method of test

27.22.4.12.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

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.

27.22.4.12.1.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 1.1.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	USSD REQUEST 1.1.1	
6	SS → ME	USSD RETURN RESULT 1.1.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND USSD 1.1.1	

PROACTIVE COMMAND : SEND USSD 1.1.1

Logically:

```

Command details
  Command number:      1
  Command type:        SEND USSD
  Command qualifier:   "00"
Device identities
  Source device:       SIM
  Destination device:  Network
Alpha identifier:     "Call Forward"
USSD String
  TON:                 International
  NPI:                 ISDN / telephone numbering plan
  USSD string:        "***21*01234567890123456789#"
    
```

Coding:

BER-TLV:	D0	27	81	03	01	12	00	82	02	81	83	85
	0C	43	61	6C	6C	20	46	6F	72	77	61	72
	64	8A	0E	91	AA	12	0A	21	43	65	87	09
	21	43	65	87	B9							

USSD REQUEST 1.1.1

Logically:

USSD RETURN RESULT 1.1.1

Logically:

TERMINAL RESPONSE : SEND USSD 1.1.1

Logically:

```

Command details
  Command number:      1
  Command type:        SEND USSD
  Command qualifier:   "00"
Device identities
  Source device:       ME
  Destination device:  SIM
Result
  General Result:      Command performed successfully
Additional information
  Operation Code:      x
  Parameters:          x
    
```

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01	00
	8D	xx	...									

Expected Sequence 1.2 (SEND USSD, call forward unconditional, all bearers, unsuccessful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.2.1	[Unsuccessful]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 1.2.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	USSD REQUEST 1.2.1	
6	SS → ME	USSD RETURN RESULT 1.2.1	
7	ME → SIM	TERMINAL RESPONSE : SEND USSD 1.2.1	

PROACTIVE COMMAND : SEND USSD 1.2.1

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: SIM
 Destination device: Network

Alpha identifier:

"Call Forward"

USSD String

TON: International
 NPI: ISDN / telephone numbering plan
 USSD string: "***21*01234567890123456789#"

Coding:

```

BER-TLV:  D0  27  81  03  01  12  00  82  02  81  83  85
           0C  43  61  6C  6C  20  46  6F  72  77  61  72
           64  8A  0E  91  AA  12  0A  21  43  65  87  09
           21  43  65  87  B9
    
```

USSD REQUEST 1.2.1

Logically:

USSD RETURN RESULT 1.2.1

Logically:

TERMINAL RESPONSE : SEND USSD 1.2.1

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: USSD return error

Additional information

Operation Code: x
 Parameters: x

Coding:

BER-TLV: 81 03 01 12 00 82 02 82 81 83 01 37

Expected Sequence 1.3 (SEND USSD, call forward unconditional, all bearers, network currently unable to process command)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 1.3.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	USSD REQUEST 1.3.1	
6	SS → ME	USSD RETURN RESULT 1.3.1	[Network currently unable to process command]
7	ME → SIM	TERMINAL RESPONSE : SEND USSD 1.3.1	

PROACTIVE COMMAND : SEND USSD 1.3.1

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: SIM
 Destination device: Network
 Alpha identifier: "Call Forward"

USSD String

TON: International
 NPI: ISDN / telephone numbering plan
 USSD string: "***21*01234567890123456789#"

Coding:

BER-TLV: D0 27 81 03 01 12 00 82 02 81 83 85
 0C 43 61 6C 6C 20 46 6F 72 77 61 72
 64 8A 0E 91 AA 12 0A 21 43 65 87 09
 21 43 65 87 B9

USSD REQUEST 1.3.1

Logically:

USSD RETURN RESULT 1.3.1

Logically:

TERMINAL RESPONSE : SEND USSD 1.3.1

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Network currently unable to process command

Coding:

BER-TLV: 81 03 01 12 00 82 02 82 81 83 01 21

Expected Sequence 1.4 (SEND USSD, call forward unconditional, all bearers, successful, USSD request size limit)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 1.4.1	
4	ME → USER	Display "Call Forward"	
5	ME → SS	USSD REQUEST 1.4.1	
6	SS → ME	USSD RETURN RESULT 1.4.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND USSD 1.4.1	

PROACTIVE COMMAND : SEND USSD 1.4.1

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: SIM
 Destination device: Network

Alpha identifier:

"Call Forward"

USSD String

TON: International
 NPI: ISDN / telephone numbering plan
 USSD string: "***21*0123456789012345678901234567*11#"

Coding:

BER-TLV: D0 32 81 03 01 12 00 82 02 81 83 85
 0C 43 61 6C 6C 20 46 6F 72 77 61 72
 64 8A 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

USSD REQUEST 1.4.1

Logically:

USSD RETURN RESULT 1.4.1

Logically:

TERMINAL RESPONSE : SEND USSD 1.4.1

Logically:

Command details
 Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"
 Device identities
 Source device: ME
 Destination device: SIM
 Result
 General Result: Command performed successfully
 Additional information
 Operation Code: x
 Parameters: x

Coding:

BER-TLV: 81 03 01 12 00 82 02 82 81 83 01 00
 8D xx ...

Expected Sequence 1.5 (SEND USSD, retrieve CLI status, successful, alpha identifier limits)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 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 USSD proactive command shall not be checked against those of the FDN list. Upon receiving this command, the ME shall deci"	
4	ME → SS	USSD REQUEST 1.5.1	
5	SS → ME	USSD RETURN RESULT 1.5.1	[Successful]
6	ME → SIM	TERMINAL RESPONSE : SEND USSD 1.5.1	

PROACTIVE COMMAND : SEND USSD 1.5.1

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 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 USSD proactive command shall not be checked against those of the FDN list. Upon receiving this command, the ME shall deci"

USSD String

TON: Unknown
 NPI: ISDN / telephone numbering plan
 USSD string: "*#31#"

Coding:

BER-TLV:	D0	81	FD	81	03	01	12	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	8A	04
	81	BA	13	FB								

USSD REQUEST 1.5.1

Logically:

USSD RETURN RESULT 1.5.1

Logically:

TERMINAL RESPONSE : SEND USSD 1.5.1

Logically:

Command details
 Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"
 Device identities
 Source device: ME
 Destination device: SIM
 Result
 General Result: Command performed successfully
 Additional information
 Operation Code: x
 Parameters: x

Coding:

BER-TLV: 81 03 01 12 00 82 02 82 81 83 01 00
 8D xx ...

Expected Sequence 1.6 (SEND USSD, call forward unconditional, all bearers, successful, null data alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.6.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 1.6.1	
4	ME	Should not give any information to the user on the fact that the ME is sending an USSD request	
5	ME → SS	USSD REQUEST 1.6.1	[Successful]
6	SS → ME	USSD RETURN RESULT 1.6.1	
7	ME → SIM	TERMINAL RESPONSE : SEND USSD 1.6.1	

PROACTIVE COMMAND : SEND USSD 1.6.1

Logically:

Command details
 Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"
 Device identities
 Source device: SIM
 Destination device: Network
 Alpha identifier: null data object
 USSD String
 TON: International
 NPI: ISDN / telephone numbering plan
 USSD string: "***21*01234567890123456789#"

Coding:

BER-TLV: D0 1B 81 03 01 12 00 82 02 81 83 85
 00 8A 0E 91 AA 12 0A 21 43 65 87 09
 21 43 65 87 B9

USSD REQUEST 1.6.1

Logically:

USSD RETURN RESULT 1.6.1

Logically:

TERMINAL RESPONSE : SEND USSD 1.6.1

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command performed successfully

Additional information

Operation Code: x
 Parameters: x

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01	00
	8D	xx	...									

27.22.4.12.1.5 Test Requirement

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

27.22.4.12.2 SEND USSD (Icon support)

27.22.4.12.2.1 Definition and applicability

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

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

27.22.4.12.2.2 Conformance requirement

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

TS GSM 11.14 [15] clause 6.1, 6.4.1 Additionally the ME shall support the icon facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 6.4.11, 6.5.4

27.22.4.12.2.3 Test Purpose

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

In addition to verify that if an icon is provided by the SIM, the icon indicated in the command may be used by the ME to inform the user, in addition to, or instead of the alpha identifier, as indicated with the icon qualifier.

27.22.4.12.2.4 Method of test

27.22.4.12.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

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.

27.22.4.12.2.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 2.1.1	[BASIC-ICON, self-explanatory]
4	ME → USER	Display BASIC ICON or May give information to user concerning what is happening	
5	ME → SS	USSD REQUEST 2.1.1	
6	SS → ME	USSD RETURN RESULT 2.1.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND USSD 2.1.1A or TERMINAL RESPONSE : SEND USSD 2.1.1B	[Command performed successfully] or [Command performed but requested icon could not be displayed]

PROACTIVE COMMAND : SEND USSD 2.1.1

Logically:

Command details

Command number: 1
Command type: SEND USSD
Command qualifier: "00"

Device identities

Source device: SIM
Destination device: Network

USSD String

TON: International
NPI: ISDN / telephone numbering plan
USSD string: "***21*01234567890123456789#"

Icon Identifier:

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

Coding:

```

BER-TLV:  D0  1D  81  03  01  12  00  82  02  81  83  8A
           0E  91  AA  12  0A  21  43  65  87  09  21  43
           65  87  B9  9E  02  00  01

```

USSD REQUEST 2.1.1

Logically:

USSD RETURN RESULT 2.1.1

Logically:

TERMINAL RESPONSE : SEND USSD 2.1.1A

Logically:

Command details
 Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"
 Device identities
 Source device: ME
 Destination device: SIM
 Result
 General Result: Command performed successfully
 Additional information
 Operation Code: x
 Parameters: x

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01	00
	8D	xx	...									

TERMINAL RESPONSE : SEND USSD 2.1.1B

Logically:

Command details
 Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"
 Device identities
 Source device: ME
 Destination device: SIM
 Result
 General Result: Command performed successfully, but requested icon could not be displayed
 Additional information
 Operation Code: x
 Parameters: x

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01	04
	8D	xx	...									

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 2.2.1	[COLOUR-ICON, self-explanatory]
4	ME → USER	Display COLOUR-ICON or May give information to user concerning what is happening	
5	ME → SS	USSD REQUEST 2.2.1	
6	SS → ME	USSD RETURN RESULT 2.2.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND USSD 2.2.1A or TERMINAL RESPONSE : SEND USSD 2.2.1B	[Command performed successfully] or [Command performed but requested icon could not be displayed]

PROACTIVE COMMAND : SEND USSD 2.2.1

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: SIM
 Destination device: Network

USSD String

TON: International
 NPI: ISDN / telephone numbering plan
 USSD string: "***21*01234567890123456789#"

Icon Identifier:

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

Coding:

```

BER-TLV:  D0  1D  81  03  01  12  00  82  02  81  83  8A
           0E  91  AA  12  0A  21  43  65  87  09  21  43
           65  87  B9  9E  02  00  02
    
```

USSD REQUEST 2.2.1

Logically:

USSD RETURN RESULT 2.2.1

Logically:

TERMINAL RESPONSE : SEND USSD 2.2.1A

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command performed successfully

Additional information

Operation Code: x
 Parameters: x

Coding:

BER-TLV: 81 03 01 12 00 82 02 82 81 83 01 00
 8D xx ...

TERMINAL RESPONSE : SEND USSD 2.2.1B

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: ME
 Destination device: SIM

Result

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

Additional information

Operation Code: x
 Parameters: x

Coding:

BER-TLV: 81 03 01 12 00 82 02 82 81 83 01 04
 8D xx ...

Expected Sequence 2.3 (SEND USSD, call forward unconditional, all bearers, successful, basic icon non self-explanatory)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 2.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 2.3.1	[BASIC-ICON, non self-explanatory]
4	ME → USER	Display "Basic Icon" and BASIC- ICON Or Display "Basic Icon"	
5	ME → SS	USSD REQUEST 2.3.1	
6	SS → ME	USSD RETURN RESULT 2.3.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND USSD 2.3.1A or TERMINAL RESPONSE : SEND USSD 2.3.1B	[Command performed successfully] or [Command performed but requested icon could not be displayed]

PROACTIVE COMMAND : SEND USSD 2.3.1

Logically:

Command details

Command number: 1
Command type: SEND USSD
Command qualifier: "00"

Device identities

Source device: SIM
Destination device: Network

Alpha Identifier

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

USSD String

TON: International
NPI: ISDN / telephone numbering plan
USSD string: "***21*01234567890123456789#"

Icon Identifier

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

Coding:

```

BER-TLV:  D0  2A  81  03  01  12  00  82  02  81  83  8D
           0B  04  42  61  73  69  63  20  49  63  6F  6E
           8A  0E  91  AA  12  0A  21  43  65  87  09  21
           43  65  87  B9  9E  02  01  01

```

USSD REQUEST 2.3.1

Logically:

USSD RETURN RESULT 2.3.1

Logically:

TERMINAL RESPONSE : SEND USSD 2.3.1A

Logically:

```

Command details
  Command number:      1
  Command type:        SEND USSD
  Command qualifier:   "00"
Device identities
  Source device:       ME
  Destination device:  SIM
Result
  General Result:      Command performed successfully
Additional information
  Operation Code:      x
  Parameters:          x
    
```

Coding:

```

BER-TLV:  81  03  01  12  00  82  02  82  81  83  01  00
          8D  xx  ...
    
```

TERMINAL RESPONSE : SEND USSD 2.3.1B

Logically:

```

Command details
  Command number:      1
  Command type:        SEND USSD
  Command qualifier:   "00"
Device identities
  Source device:       ME
  Destination device:  SIM
Result
  General Result:      Command performed successfully, but requested icon could not be
                       displayed
Additional information
  Operation Code:      x
  Parameters:          x
    
```

Coding:

```

BER-TLV:  81  03  01  12  00  82  02  82  81  83  01  04
          8D  xx  ...
    
```

Expected Sequence 2.4 (SEND USSD, 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 USSD 2.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 2.4.1	[BASIC-ICON, non self-explanatory]
4	ME → SIM	TERMINAL RESPONSE : SEND USSD 2.4.1	[Command data not understood by ME]

PROACTIVE COMMAND : SEND USSD 2.4.1

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: SIM
 Destination device: Network

USSD String

TON: International
 NPI: ISDN / telephone numbering plan
 USSD string: "***21*01234567890123456789#"

Icon Identifier

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

Coding:

BER-TLV:	D0	1D	81	03	01	12	00	82	02	81	83	8A
	0E	91	AA	12	0A	21	43	65	87	09	21	43
	65	87	B9	9E	02	01	01					

TERMINAL RESPONSE : SEND USSD 2.4.1

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01	32
----------	----	----	----	----	----	----	----	----	----	----	----	----

27.22.4.12.2.5 Test Requirement

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

27.22.4.12.2 SEND USSD (UCS2 support)

27.22.4.12.2.1 Definition and applicability

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

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

27.22.4.12.2.2 Conformance requirement

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

TS GSM 11.14 [15] clause 6.1, 6.4.1

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

ISO/IEC 10646 [XX]

27.22.4.12.2.3 Test Purpose

To verify that the ME displays the UCS2 text contained in the SEND USSD proactive SIM command, and returns a successful result in the TERMINAL RESPONSE command send to the SIM.

27.22.4.12.2.4 Method of test

27.22.4.12.2.4.1 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.

27.22.4.12.2.4.2 Procedure

Expected Sequence 3.1 (SEND USSD, call forward unconditional, all bearers, successful, UCS2 text)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 3.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND USSD 3.1.1	
4	ME → USER	Display “ЗДРАВСТВУЙТЕ”	[“Hello” in Russian]
5	ME → SS	USSD REQUEST 3.1.1	
6	SS → ME	USSD RETURN RESULT 3.1.1	[Successful]
7	ME → SIM	TERMINAL RESPONSE : SEND USSD 3.1.1A or TERMINAL RESPONSE : SEND USSD 3.1.1B or TERMINAL RESPONSE : SEND USSD 3.1.1C	[Command performed successfully] or [Command beyond ME’s capabilities] or [Command data not understood by ME]

PROACTIVE COMMAND : SEND USSD 3.1.1

Logically:

Command details
 Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities
 Source device: SIM
 Destination device: Network

Alpha Identifier
 Data coding scheme: UCS2 (16bit)
 Text: "ЗДРАВСТВУЙТЕ"

USSD String
 TON: International
 NPI: ISDN / telephone numbering plan
 USSD string: "***21*01234567890123456789#"

Coding:

BER-TLV:	D0	34	81	03	01	12	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	8A	0E	91	AA	12	0A	21	43	65	87
	09	21	43	65	87	B9						

USSD REQUEST 3.1.1

Logically:

USSD RETURN RESULT 3.1.1

Logically:

TERMINAL RESPONSE : SEND USSD 3.1.1A

Logically:

Command details
 Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities
 Source device: ME
 Destination device: SIM

Result
 General Result: Command performed successfully

Additional information
 Operation Code: x
 Parameters: x

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01	00
	8D	xx	...									

TERMINAL RESPONSE : SEND USSD 3.1.1B

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command beyond ME's capabilities

Coding:

BER-TLV: 81 03 01 12 00 82 02 82 81 83 01 30

TERMINAL RESPONSE : SEND USSD 3.1.1C

Logically:

Command details

Command number: 1
 Command type: SEND USSD
 Command qualifier: "00"

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command data not understood by ME

Coding:

BER-TLV: 81 03 01 12 00 82 02 82 81 83 01 32

27.22.4.12.2.5 Test Requirement

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

27.22.4.13 SET UP CALL

TBD

27.22.4.14 POLLING OFF

TBD

27.22.4.15 PROVIDE LOCAL INFORMATION

TBD

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 (SET UP EVENT LIST, Set Up Call Connect Event)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1A	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SET UP EVENT LIST 1.1A	
4	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.1A	
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
...			
6	SS → ME	SETUP 1.1A	[Incoming call alert]
7	USER → ME	User shall accept the incoming call	
8	ME → SS	CONNECT 1.1A	
9	ME → SIM	ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1A	[Call Connected Event]
10	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : SET UP EVENT LIST 1.1A

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 1.1A

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 1.1A

Logically:

Transaction identifier	
Value:	XX XX
Address	
Value:	XX XX
Called party subaddress	
Value:	XX XX

CONNECT 1.1A

Logically:

Transaction identifier	
Value:	XX XX

ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1A

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 2 (SET UP EVENT LIST, Replace Event)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1A	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SET UP EVENT LIST 1.1A	[Call Connected and Call Disconnected Events]
	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.1A	
4	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2B	
5	ME → SIM	FETCH	
6	SIM → ME	PROACTIVE COMMAND : SET UP EVENT LIST 1.2B	[Call Disconnected Event]
7	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.2B	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
...			
10	SS → ME	SETUP 1.2A	[Incoming call alert]
11	USER → ME	User shall accept the incoming call	
12	ME → SS	CONNECT 1.2A	
...			
13	SS → ME ME → SIM	DISCONNECT 1.2A ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2A	[Call Disconnect Event]
14	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : SET UP EVENT LIST 1.2A

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 1.2A

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 1.2B

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 1.2B

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 1.2A

Logically:

Transaction identifier	
Value:	XX XX
Address	
Value:	XX XX
Called party subaddress	
Value:	XX XX

CONNECT 1.2A

Logically:

Transaction identifier	
Value:	XX XX

DISCONNECT 1.2A

Logically:

Transaction identifier	
Value:	XX XX
Cause	
Value:	XX XX

ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2A

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 3 (SET UP EVENT LIST, Remove Event)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3A	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SET UP EVENT LIST 1.3A	[Call Connected Event]
	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.3A	
4	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3B	
5	ME → SIM	FETCH	
6	SIM → ME	PROACTIVE COMMAND : SET UP EVENT LIST 1.3B	[Remove Event]
7	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.3B	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
...			
10	SS → ME	SETUP 1.2A	[Incoming call alert]
11	USER → ME	User shall accept the incoming call	
12	ME → SS	CONNECT 1.2A	
...			
13	SS → ME	DISCONNECT 1.2A	

PROACTIVE COMMAND : SET UP EVENT LIST 1.3A

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 1.3A

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 1.3B

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 1.3B

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 1.3A

Logically:

Transaction identifier
 Value: XX XX
 Address
 Value: XX XX
 Called party subaddress
 Value: XX XX

CONNECT 1.3A

Logically:

Transaction identifier
 Value: XX XX

DISCONNECT 1.3A

Logically:

Transaction identifier
 Value: XX XX
 Cause
 Value: XX XX

Expected Sequence 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 1.4A	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SET UP EVENT LIST 1.4A	[Call Connected Event]
	ME → SIM	TERMINAL RESPONSE : SET UP EVENT LIST 1.4A	
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 1.4A	
...			
10	SS → ME	DISCONNECT 1.4A	

PROACTIVE COMMAND : SET UP EVENT LIST 1.4A

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 1.4A

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 1.4A

Logically:

Transaction identifier	
Value:	XX XX
Address	
Value:	XX XX
Called party subaddress	
Value:	XX XX

CONNECT 1.4A

Logically:

Transaction identifier	
Value:	XX XX

DISCONNECT 1.4A

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

TBD

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

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

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),

27.22.4.18.2.3 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 Requirements

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 Requirements

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

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, 6.4.119 (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), ISO /IEC 7816-3, Annex H (Support of Multiple Card Operation),

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 Requirements

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 Requirements

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

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)

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 Requirements

The ME shall operate in the manner defined in expected sequences

27.22.4.21 TIMER MANAGEMENT

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	SIM → ME	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	
6	ME → SIM	FETCH	
7	SIM → ME	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	
10	ME → SIM	FETCH	
11	SIM → ME	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	
14	ME → SIM	FETCH	
15	SIM → ME	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 :1.1.1: TIMER MANAGEMENT

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: 0x00 0X01 0x00

Coding:

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

PROACTIVE COMMAND :1.1.2: TIMER MANAGEMENT

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 11 81 03 01 2710 82 02 81 82 A4
 01 01

PROACTIVE COMMAND :1.1.3: TIMER MANAGEMENT

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: 0x00 0X00 0x1E

Coding:

BER-TLV: D0 11 81 03 01 27 00 82 02 81 82 A4
 01 01 A5 03 00 00 1E

PROACTIVE COMMAND :1.1.4: TIMER MANAGEMENT

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 11 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: xx xx xx

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: xx xx xx

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	
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	
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	
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 :1.2.1:TIMER MANAGEMENT

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: 0x00 0X0A 0x00

Coding:

BER-TLV: D0 11 81 03 01 27 00 82 02 81 82 A4
 01 02 A5 03 00 0A 00

PROACTIVE COMMAND :1.2.2: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 02

PROACTIVE COMMAND :1.2.3: TIMER MANAGEMENT

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: 0x00 0X00 0x0A

Coding:

BER-TLV: D0 11 81 01 01 27 00 82 02 81 82 A4
 01 02 A5 03 00 00 0A

PROACTIVE COMMAND :1.2.4: TIMER MANAGEMENT

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	11	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: xx xx xx

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: xx xx xx

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 3 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	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.3.1	[start timer 3]
4	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.3.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.3.2	[ask value of timer 3]
8	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.3.2	[command performed successfully]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.3	
10	ME → SIM	FETCH	
11	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.3.3	[reinitialise timer 3]
12	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.3.3	[command performed successfully]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.4	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.3.4	[deactivate timer 3]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.3.4	[command performed successfully]

PROACTIVE COMMAND :1.3.1: TIMER MANAGEMENT

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: 0x00 0X0A 0x00

Coding:

BER-TLV: D0 11 81 03 01 27 00 82 02 81 82 A4
 01 03 A5 03 00 0A 00

PROACTIVE COMMAND :1.3.2: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 03

Proactive SIM Command 1.3.3: TIMER MANAGEMENT

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: 0x00 0X00 0x0A

Coding:

BER-TLV: D0 11 81 01 01 27 00 82 02 81 82 A4
 01 03 A5 03 00 00 0A

Proactive SIM Command 1.3.4: TIMER MANAGEMENT

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 11 81 03 01 27 01 82 02 81 82 A4
 01 03

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: 3

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	03									

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: 3

Timer value:
 value of timer: xx xx xx

Coding:

BER-TLV:	81	03	01	27	10	82	02	82	81	83	01	00
	A4	01	03	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: 3
Timer value:
  value of timer:    xx xx xx
    
```

Coding:

```

BER-TLV:   81  03  01  27  01  82  02  82  81  83  01  00
           A4  01  03  A5  03  xx  xx  xx
    
```

Expected Sequence 1.4 (TIMER MANAGEMENT, start timer 4 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 1.4.1	
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND : TIMER MANAGEMENT 1.4.1	[start timer 4]
4	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.4.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.2	
6	ME → SIM	FETCH	
7		PROACTIVE COMMAND : TIMER MANAGEMENT 1.4.2	[ask value of timer 4]
8	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.4.2	[command performed successfully]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.3	
10	ME → SIM	FETCH	
11		PROACTIVE COMMAND : TIMER MANAGEMENT 1.4.3	[reinitialise timer 4]
12	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.4.3	[command performed successfully]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.4	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND : TIMER MANAGEMENT 1.4.4	[deactivate timer 4]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.4.4	[command performed successfully]

Proactive SIM Command 1.4.1: TIMER MANAGEMENT

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: 0x00 0X0A 0x00

Coding:

BER-TLV: D0 11 81 03 01 27 00 82 02 81 82 A4
 01 04 A5 03 00 0A 00

Proactive SIM Command 1.4.2: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 04

Proactive SIM Command 1.4.3: TIMER MANAGEMENT

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: 0x00 0X00 0x0A

Coding:

BER-TLV: D0 11 81 01 01 27 00 82 02 81 82 A4

01 04 A5 03 00 00 0A

Proactive SIM Command 1.4.4: TIMER MANAGEMENT

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	11	81	03	01	27	01	82	02	81	82	A4
	01	04										

TERMINAL RESPONSE : TIMER MANAGEMENT 1.4.1 and 1.4.3

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:	4

Coding:

BER-TLV:	81	03	01	27	00	82	02	82	81	83	01	00
	A4	01	04									

TERMINAL RESPONSE : 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:	ME
Destination device:	SIM
Result	
General Result:	Command performed successfully
Timer identifier:	
Identifier of timer:	4
Timer value:	
value of timer:	xx xx xx

Coding:

BER-TLV:	81	03	01	27	10	82	02	82	81	83	01	00
	A4	01	04	A5	03	xx	xx	xx				

TERMINAL RESPONSE : TIMER MANAGEMENT 1.4.4

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:	4
Timer value:	
value of timer:	xx xx xx

Coding:

BER-TLV:	81	03	01	27	01	82	02	82	81	83	01	00
	A4	01	04	A5	03	xx	xx	xx				

Expected Sequence 1.5: same as sequences 1.1, 1.2, 1.3, 1.4 but with Timer Identifier equal to 5

Expected Sequence 1.6: same as sequences 1.1, 1.2, 1.3, 1.4, 1.5 but with Timer Identifier equal to 6

Expected Sequence 1.7: same as sequences 1.1, 1.2, 1.3, 1.4, 1.5, 1.6 but with Timer Identifier equal to 7

Expected Sequence 1.8: same as sequences 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7 but with Timer Identifier equal to 8

Expected Sequence 1.9 (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 1.9.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.9.1	[get current value from timer 1]
4	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.1	[action in contradiction with the current timer state]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.9.2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.9.2	[get current value from timer 2]
8	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.2	[action in contradiction with the current timer state]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.9.3	
10	ME → SIM	FETCH	
11	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.9.3	[get current value from timer 3]
12	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.3	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.9.4	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.9.4	[get current value from timer 4]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.4	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.9.5	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.9.5	[get current value from timer 5]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.5	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.9.6	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.9.6	[get current value from timer 6]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.6	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.9.7	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.9.7	[get current value from timer 7]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.7	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.9.8	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.9.8	[get current value from timer 8]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.8	[action in contradiction with the current timer state]

Proactive SIM Command 1.9.1: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 01

TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.1

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 SIM Command 1.9.2: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 02

TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.2

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 SIM Command 1.9.3: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 03

TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.3

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 SIM Command 1.9.4: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 04

TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.4

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 SIM Command 1.9.5: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 05

TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.5

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 SIM Command 1.9.6: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 06

TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.6

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 SIM Command 1.9.7: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 07

TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.7

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 SIM Command 1.9.8: TIMER MANAGEMENT

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 11 81 03 01 27 10 82 02 81 82 A4
 01 08

TERMINAL RESPONSE : TIMER MANAGEMENT 1.9.8

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 1.10 (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 1.10.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.10.1	[deactivate timer 1]
4	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.1	[action in contradiction with the current timer state]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.10.2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.10.2	[deactivate timer 2]
8	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.2	[action in contradiction with the current timer state]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.10.3	
10	ME → SIM	FETCH	
11	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.10.3	[deactivate timer 3]
12	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.3	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.10.4	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.10.4	[deactivate timer 4]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.4	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.10.5	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.10.5	[deactivate timer 5]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.5	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.10.6	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.10.6	[deactivate timer 6]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.6	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.10.7	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.10.7	[deactivate timer 7]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.7	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.10.8	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND : TIMER MANAGEMENT 1.10.8	[deactivate timer 8]
16	ME → SIM	TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.8	[action in contradiction with the current timer state]

Proactive SIM Command 1.10.1: TIMER MANAGEMENT

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 11 81 03 01 27 01 82 02 81 82 A4
 01 01

TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.1

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 SIM Command 1.10.2: TIMER MANAGEMENT

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 11 81 03 01 27 01 82 02 81 82 A4
 01 02

TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.2

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 SIM Command 1.10.3: TIMER MANAGEMENT

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 11 81 03 01 27 01 82 02 81 82 A4
 01 03

TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.3

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 SIM Command 1.10.4: TIMER MANAGEMENT

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 11 81 03 01 27 01 82 02 81 82 A4
01 04

TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.4

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 SIM Command 1.10.5: TIMER MANAGEMENT

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 11 81 03 01 27 01 82 02 81 82 A4
 01 05

TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.5

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 SIM Command 1.10.6: TIMER MANAGEMENT

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 11 81 03 01 27 01 82 02 81 82 A4
 01 06

TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.6

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 SIM Command 1.10.7: TIMER MANAGEMENT

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 11 81 03 01 27 01 82 02 81 82 A4
 01 07

TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.7

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 SIM Command 1.10.8: TIMER MANAGEMENT

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 11 81 03 01 27 01 82 02 81 82 A4
 01 08

TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.8

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 1.11 (TIMER MANAGEMENT, start 8 timers successfully)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.11.1	
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND :	[timer 1]
4	ME → SIM	TIMER MANAGEMENT 1.11.1 TERMINAL RESPONSE :	[command performed successfully]
5	SIM → ME	TIMER MANAGEMENT 1.11.1 PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.11.2	
6	ME → SIM	FETCH	
7		PROACTIVE COMMAND :	[timer 2]
8	ME → SIM	TIMER MANAGEMENT 1.11.2 TERMINAL RESPONSE :	[command performed successfully]
9	SIM → ME	TIMER MANAGEMENT 1.11.2 PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.11.3	
10	ME → SIM	FETCH	
11		PROACTIVE COMMAND :	[timer 3]
12	ME → SIM	TIMER MANAGEMENT 1.11.3 TERMINAL RESPONSE :	[command performed successfully]
13	SIM → ME	TIMER MANAGEMENT 1.11.3 PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.11.4	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND :	[timer 4]
16	ME → SIM	TIMER MANAGEMENT 1.11.4 TERMINAL RESPONSE :	[command performed successfully]
17	SIM → ME	TIMER MANAGEMENT 1.11.4 PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.11.5	
18	ME → SIM	FETCH	
19		PROACTIVE COMMAND :	[timer 5]
20	ME → SIM	TIMER MANAGEMENT 1.11.5 TERMINAL RESPONSE :	[command performed successfully]
21	SIM → ME	TIMER MANAGEMENT 1.11.5 PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.11.6	
22	ME → SIM	FETCH	
23		PROACTIVE COMMAND :	[timer 6]
24	ME → SIM	TIMER MANAGEMENT 1.11.6 TERMINAL RESPONSE :	[command performed successfully]
25	SIM → ME	TIMER MANAGEMENT 1.11.6 PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.11.7	
26	ME → SIM	FETCH	
27		PROACTIVE COMMAND :	[timer 7]
28	ME → SIM	TIMER MANAGEMENT 1.11.7 TERMINAL RESPONSE :	[command performed successfully]
29	SIM → ME	TIMER MANAGEMENT 1.11.7 PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.11.8	
30	ME → SIM	FETCH	
31		PROACTIVE COMMAND :	[timer 8]
32	ME → SIM	TIMER MANAGEMENT 1.11.8 TERMINAL RESPONSE :	[command performed successfully]
		TIMER MANAGEMENT 1.11.8	

Proactive SIM Command 1.11.1: TIMER MANAGEMENT

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:	0x00 0X01 0x00

Coding:

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

TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.1

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 SIM Command 1.11.2: TIMER MANAGEMENT

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: 0x00 0X01 0x00

Coding:

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

TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.2

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 SIM Command 1.11.3: TIMER MANAGEMENT

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: 0x00 0X01 0x00

Coding:

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

TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.3

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 SIM Command 1.11.4: TIMER MANAGEMENT

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: 0x00 0X01 0x00

Coding:

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

TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.4

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 SIM Command 1.11.5: TIMER MANAGEMENT

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: 0x00 0X01 0x00

Coding:

BER-TLV: D0 11 81 03 01 27 00 82 02 81 82 A4
 01 05 A5 03 00 01 00

TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.5

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 SIM Command 1.11.6: TIMER MANAGEMENT

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: 0x00 0X01 0x00

Coding:

BER-TLV: D0 11 81 03 01 27 00 82 02 81 82 A4
 01 06 A5 03 00 01 00

TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.6

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 SIM Command 1.11.7: TIMER MANAGEMENT

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:	0x00 0X01 0x00

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	07	A5	03	00	01	00					

TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.7

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 SIM Command 1.11.8: TIMER MANAGEMENT

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: 0x00 0X01 0x00

Coding:

BER-TLV:	D0	11	81	03	01	27	00	82	02	81	82	A4
	01	08	A5	03	00	01	00					

TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.8

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 Requirements

The ME shall operate in the manner defined in expected sequences

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

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

Additionally this test is 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

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

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.22, 6.8 (Terminal Response), 11, 11.1, 12.25

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 (SET UP IDLE MODE, display idle mode text)

Step	Direction	Message / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1A	[Idle Mode Text]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1A	
6	ME → USER	Display "Idle Mode Text"	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1A	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	

ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1A

Logically:

Event list

Event 1: Idle screen available

Device identities

Source device: Display

Destination device: SIM

Coding:

Coding:

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

PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1A

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 1.1A

Logically:

Command details

Command number: 1
 Command type: SET UP IDLE MODE TEXT
 Command qualifier: RFU

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00
----------	----	----	----	----	----	----	----	----	----	----	----	----

Expected Sequence 2 (SET UP IDLE MODE TEXT, replace idle mode text)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.2A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1A	
4	ME → SIM	FETCH	
5	SIM → ME ME → USER	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1A Display "Idle Mode Text"	[Idle Mode Text]
6	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1A	
7	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.2B	[Idle Mode Text]
8	ME → USER	Display "Toolkit Test"	
9	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.2B	
10	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : SETUP IDLE MODE TEXT 1.2A

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  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 1.2A

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 3 (SET UP IDLE MODE TEXT, remove idle mode text)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1A	
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1A	["Idle Mode Text"]
6	ME → USER	Display "Idle Mode Text"	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1A	
8	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.3A	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.3A	[Remove idle mode text]
11	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	
12	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.3A	
13	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : SETUP IDLE MODE TEXT 1.3A

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 1.3A

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 4 (SET UP IDLE MODE TEXT, competing information on ME display)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1A	
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1A	["Idle Mode Text"]
6	ME → USER	Display "Idle Mode Text"	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1A	
...			
8	SS → ME	SMS PP 1.4A	[Display immediate SMS]
9	ME → USER	Display "Short Message"	
10	USER → ME	Clear display and select idle screen	
11	ME → USER	Display "Idle Mode Text"	

SMS-PP 1.4A

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	????
TP-PID	????
TP-DCS	
Coding Group	Data Coding / Message Class
Message Coding	8 bit
Message Class	????
TP-SCTS:	01/01/98 00:00:00 +0
TP-UDL	13
TP-UD	"Short Message"

Coding: XX ...

Expected Sequence 5 (SET UP IDLE MODE TEXT, ME power cycled)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1A	
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1A	["Idle Mode Text"]
6	ME → USER	Display "Idle Mode Text"	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1A	
...			
8	USER → ME	Power off ME	
9	ME ↔ SIM	GSM TERMINATION PROCEDURE	
...			
10	USER → ME	Power on ME	
11	ME ↔ SIM	GSM ACTIVATION PROCEDURE	
12	ME ↔ SIM	SIM INITIALISATION	
...			
13	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	

Expected Sequence 6 (SET UP IDLE MODE TEXT, REFRESH with SIM Initialisation)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1A	[Idle Mode Text]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.1A	
6	ME → USER	Display "Idle Mode Text"	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.1A	
8	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 1.6A	
9	ME → SIM	FETCH	
10	SIM → ME	PROACTIVE COMMAND : REFRESH 1.6A	[SIM Initialisation]
...			
11	ME ↔ SIM	SIM INITIALISATION	
...			
12	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	
13	ME → SIM	TERMINAL RESPONSE : REFRESH 1.6A	[Command performed successfully]
		or	
		TERMINAL RESPONSE : REFRESH 1.6B	[Command performed successfully with additional files read]
14	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : REFRESH 1.6A

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 1.6A

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 1.6B

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 7 (SET UP IDLE MODE TEXT, large text string)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select idle screen	
2	ME → SIM	ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 1.1A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.7A	[large text string]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.7A	
6	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”	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.7A	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.7A

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”

Coding:

```

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 LIST 1.7A

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 TEXT proactive SIM facility and the icon identifier facility.

27.22.4.22.2.2 Conformance requirement

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

TS GSM 11.14 [15] clause 5.2, 6.1, 6.4.22, 6.6.2 and 14.

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

TS GSM 11.14 [15] clause 6.5.4, 12.31, 12.32 and 13.3.

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 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 2.1A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.1A	[Icon is self-explanatory]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.1A	
6	ME → USER	Display icon #1	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 2.1A	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	

ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.1A

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 2.1A

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 2.1A

Logically:

Command details	
Command number:	1
Command type:	SET UP IDLE MODE TEXT
Command qualifier:	RFU
Device identities	
Source device:	ME
Destination device:	SIM
Result	
General Result:	Command performed successfully

Coding:

BER-TLV: 81 03 01 28 00 82 02 82 81 83 01 00

Expected Sequence 2 (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 2.2A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.2A	[Icon is not self-explanatory]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.2A	
6	ME → USER	Display icon #1 and "Idle text"	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 2.2A	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	

ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.2A

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 2.2A

Logically:

Command details
 Command number: 1
 Command type: SET UP IDLE MODE TEXT
 Command qualifier: RFU
 Device identities
 Source device: SIM
 Destination device: ME
 Text string: "Idle text"
 Icon identifier
 Icon qualifier: icon is not self-explanatory
 Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV: D0 19 81 03 01 28 00 82 02 81 82 8D
 0F 04 49 64 6C 65 20 56 65 78 74 9E
 02 01 01

TERMINAL RESPONSE : SET UP IDLE MODE LIST 2.2A

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 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 2.3A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.3A	[Icon is self-explanatory]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.3A	
	ME USER	Display "Idle text"	
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 2.3A	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	

ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.3A

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 2.3A

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 2.3A

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 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 2.4A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.4A	[Icon is not self-explanatory, no text string]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.4A	
6	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 2.4A	
7	SIM → ME	PROACTIVE SIM SESSION ENDED	

ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 2.4A

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 2.4A

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 2.4A

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 and the UCS2 display facility.

27.22.4.22.3.2 Conformance requirement

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

TS GSM 11.14 [15] clause 5.2, 6.1, 6.4.22, 6.6.2 and 14.

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

TS GSM 11.14 [15] clause 5.2 and 12.15.3.

TS GSM 03.38 []

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 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 3.1A	
3	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 3.1A	["Hello" in Russian]
4	ME → SIM	FETCH	
5	SIM → ME	PROACTIVE COMMAND : SET UP IDLE MODE TEXT 3.1A	
6	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
7	ME → SIM	TERMINAL RESPONSE : SET UP IDLE MODE TEXT 3.1A	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	

ENVELOPE: EVENT DOWNLOAD IDLE SCREEN AVAILABLE 3.1A

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 3.1A

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 3.1A

Logically:

Command details

Command number: 1
 Command type: SET UP IDLE MODE TEXT
 Command qualifier: RFU

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	00
----------	----	----	----	----	----	----	----	----	----	----	----	----

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 MANAGEMENT

TBD

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, 6.4.24, 6.6.24.

27.22.4.24.1.3 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 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 and performed the PROFILE DOWNLOAD procedure.

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)

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	DTMF Request 1.1.1	
6	ME → SIM	TERMINAL RESPONSE : SEND DTMF 1.1.1	[Command performed successfully]
7	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: \$DTMF_1.1.1\$= "C1 F2" (given as example)

Coding:

BER-TLV: D0 0D 81 03 01 14 00 82 02 81 83 AC
 02 C1 F2

DTMF Request 1.1.1

Logically:

DTMF String: \$DTMF_1.1.1\$ = "C1 F2" (given as example)

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)

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	DTMF Request 1.2.1	
6	ME → SIM	TERMINAL RESPONSE : SEND DTMF 1.2.1	[Command performed successfully]
7	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: \$DTMF_1.1.2\$ = "C1 F2" (given as example)

Coding:

BER-TLV:	D0	18	81	03	01	14	00	82	02	81	83	85
	09	53	65	6E	64	20	44	54	4D	46	AC	02
	C1	F2										

DTMF Request 1.2.1

Logically:

DTMF String: \$DTMF_1.1.2\$ = "C1 F2" (given as example)

TERMINAL RESPONSE : SEND DTMF 1.2.1

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 1.3 (SEND DTMF, containing alpha identifier with null data object, a call has been successfully established before the beginning of the test)

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	DTMF Request 1.3.1	
6	ME → SIM	TERMINAL RESPONSE : SEND DTMF 1.3.1	[Command performed successfully]
7	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: \$DTMF_1.1.3\$ = "C1 F2" (given as example)

Coding:

BER-TLV: D0 0F 81 03 01 14 00 82 02 81 83 85
00 AC 02 C1 F2

DTMF Request 1.3.1 Logically:

DTMF String: \$DTMF_1.1.3\$ = "C1 F2" (given as example)

TERMINAL RESPONSE : SEND DTMF 1.3.1

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : SEND DTMF 1.4.1	
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	

PROACTIVE COMMAND : SEND DTMF 1.4.1

Logically:

Command details

Command number: 1
 Command type: SEND DTMF
 Command qualifier: "00"

Device identities

Source device: SIM
 Destination device: Network

DTMF String: \$DTMF_1.2.1\$ = "C1 F2" (given as example)

Coding:

BER-TLV: D0 0D 81 03 01 14 00 82 02 81 83 AC
 02 C1 F2

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, 6.4.24, 6.6.24.

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 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 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

See annex C

27.22.4.24.2.4.2 Procedure

Expected Sequence 2.1 (SEND DTMF, BASIC ICON)

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	DTMF Request 2.1.1	
6	ME → SIM	TERMINAL RESPONSE : SEND DTMF 2.1.1	[Command performed successfully]
7	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: \$DTMF_2.1\$ = "C1 F2" (given as example)
 Icon Identifier: icon is self-explanatory
 Icon Identifier: record 1 in EF_(IMG)

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)

TERMINAL RESPONSE : SEND DTMF 2.1.1

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 2.2 (SEND DTMF, COLOUR-ICON)

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	DTMF Request 2.2.1	
6	ME → SIM	TERMINAL RESPONSE : SEND DTMF 2.2.1	[Command performed successfully]
7	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: \$DTMF_2.2\$ = "C1 F2" (given as example)

Icon Identifier:

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

Coding:

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

DTMF Request 2.2.1

Logically:

DTMF String: \$DTMF_2.2\$ = "C1 F2" (given as example)

TERMINAL RESPONSE : SEND DTMF 2.2.1

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

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	DTMF Request 2.3.1	
6	ME → SIM	TERMINAL RESPONSE : SEND DTMF 2.3.1A	[Command performed successfully]
		Or	Or
		TERMINAL RESPONSE : SEND DTMF 2.3.1B	[Command performed successfully, but requested icon could not be displayed]
7	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:

"Send DTMF"
 DTMF String: \$DTMF_2.3\$ = "C1 F2" (given as example)

Icon Identifier:

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

Coding:

```
BER-TLV:  D0  1C  81  03  01  14  00  82  02  81  83  85
           09  53  65  6E  64  20  44  54  4D  46  AC  02
           C1  F2  9E  02  01  01
```

DTMF Request 2.3.1

Logically:

DTMF String: \$DTMF_2.3\$ = "C1 F2" (given as example)

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 2.3.1.B

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.

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 clause 6.4.24, 6.6.24.

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

ISO/IEC 10646.

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)

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	DTMF REQUEST 3.1.1	
7	ME → SIM	TERMINAL RESPONSE : SEND DTMF 3.1.1A Or TERMINAL RESPONSE : SEND DTMF 3.1.1B Or TERMINAL RESPONSE : SEND DTMF 3.1.1C	[Command performed successfully] or [Command beyond ME’s capabilities] or [Command data not understood by ME]

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: \$DTMF_3.1\$ = “C1 F2” (given as example)

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
    
```

DTMF REQUEST 3.1.1

Logically:

\$DTMF_3.1\$ = “C1 F2” (given as example)

TERMINAL RESPONSE : SEND DTMF 3.1.1A

Logically:

Command details

Command number: 1
 Command type: SEND DTMF
 Command qualifier: "00"

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command performed successfull

Coding:

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

TERMINAL RESPONSE : SEND DTMF 3.1.1B

Logically:

Command details

Command number: 1
 Command type: SEND DTMF
 Command qualifier: "00"

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command beyond ME's capabilities

Coding:

BER-TLV: 81 03 01 14 00 82 02 82 81 83 01 30

TERMINAL RESPONSE : SEND DTMF 3.1.1C

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 data not understood by ME

Coding:

BER-TLV: 81 03 01 14 00 82 02 82 81 83 01 32

27.22.4.12.2.5 Test Requirement

The ME shall operate in the manner defined in expected 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.
4	ME → SIM	TERMINAL RESPONSE : LANGUAGE NOTIFICATION 1.1.1	[Command performed successfully]
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
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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

TBD

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**27.22.5.1 SMS-PP Data Download**

TBD

27.22.5.2 SMS-CB Data Download

TBD

27.22.5.3 MENU SELECTION

TBD

27.22.6 CALL CONTROL BY SIM**27.22.6.1 Procedure for Mobile Originated calls**

TBD

27.22.6.2 Procedure for Supplementary (SS) Services

TBD

27.22.6.3 Interaction with Fixed Dialling Number (FDN)

TBD

27.22.6.4 Support of Barred Dialling Number (BDN) service

TBD

27.22.7 TIMER EXPIRATION

TBD

27.22.8 EVENT DOWNLOAD

TBD

- 27.22.8.1 MT Call event
- 27.22.8.2 Call connected event
- 27.22.8.3 Call disconnected event
- 27.22.8.4 Location status event
- 27.22.8.5 User activity event
- 27.22.8.6 Idle screen available event
- 27.22.8.7 Card reader status event
- 27.22.8.8 Language selection event
- 27.22.8.9 Browser termination event
- 27.22.8.10 Data available event
- 27.22.8.11 Channel status event

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_{img} (4F20, linear fixed file) and EF_{Instance} (4FXX, transparent file).

EF_{img} (Image, 4F20)

Record 1:

Logically:

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

Coding: 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: 2E
 Image Instance Height: 28
 Image Coding Scheme: 21 (colour image)
 Image Instance File Identifier: 4F 02 (EF_{Instance})
 Offset into Image Instance File: 00 00
 Length of Image Instance Data: 00 E8

Coding: 01 2E 28 21 4F 02 00 00 00 E8
 FF FF FF FF FF FF FF FF FF FF

EF_{Instance} (4F01)

Logically:

Image Instance Data: see below

Coding:

02	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	00								
1C	21	08	44	EE	00	48	C4	31	92	20	01	25	11	45		
50	80	07	14	45	15	43	80	12								
71	1C	4D	08	00	4A	24	89	32	20	01	C8	9E	24	4E		
E0																

EF_{Instance} (4F02)

Logically:

Image Instance Data: see below

Coding:

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

Annex D (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		0.0.1
