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(Release 1999)**



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1 Scope

The present document describes the technical characteristics and methods of test for testing the SIM Application Toolkit implemented in Mobile Stations (MS) for the Pan European digital cellular communications system and Personal Communication Systems (PCS) operating in the 900 MHz 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

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

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

<u>MORE TIME 27.22.4.4</u>		<u>1.1</u>	<u>96</u>
<u>PLAY TONE 27.22.4.5</u>			<u>96</u>
	<u>play all tones</u>	<u>1.1</u>	<u>96</u>
	<u>display alpha</u>	<u>1.1</u>	<u>96</u>
	<u>user termination</u>	<u>1.1</u>	<u>96</u>
	<u>superimpose</u>	<u>1.1</u>	<u>96</u>
	<u>UCS2 display</u>	<u>no</u>	<u>97</u>
	<u>icons</u>	<u>no</u>	<u>98</u>
<u>POLL INTERVAL 27.22.4.6</u>			<u>96</u>
	<u>duration</u>	<u>1.1</u>	<u>96</u>
<u>REFRESH 27.22.4.7</u>			<u>96</u>
	<u>SIM initialisation, enabling FDN mode</u>	<u>1.1</u>	<u>96</u>
	<u>file change notification of FDN file</u>	<u>1.2</u>	<u>96</u>
	<u>SIM initialisation and file change notification of PLMN</u>	<u>1.3</u>	<u>96</u>
	<u>SIM initialisation and full file change notification, enabling FDN mode</u>	<u>1.4</u>	<u>96</u>
	<u>SIM reset</u>	<u>1.5</u>	<u>96</u>
	<u>MM restart in case of IMSI change</u>	<u>2.1</u>	<u>98</u>
<u>SET UP MENU 27.22.4.8</u>			<u>96</u>
	<u>Set up, menu selection, replace and remove menu</u>	<u>1.1</u>	<u>96</u>
	<u>Large menu</u>	<u>1.2</u>	<u>96</u>
	<u>help information</u>	<u>2.1</u>	<u>97</u>
	<u>next action indicator</u>	<u>3.1</u>	<u>97</u>
	<u>icons</u>	<u>4.1, 4.2</u>	<u>98</u>
	<u>soft key access</u>	<u>5.1</u>	<u>98</u>
<u>SELECT ITEM 27.22.4.9</u>			<u>96</u>

	Mandatory features	1.1	96
	Large menu	1.2, 1.3, 1.5,1.6	96
	Backwards move	1.4	96
	user termination	1.4	96
	no response	no	96
	help information	4.1	97
	default selected item	3.1	97
	next action indicator	2.1	97
	Presentation style	6.1, 6.2	98
	icons	5.1, 5.2	98
	Soft keys	7.1	98
	SEND SMS 27.22.4.10		96
	Packing not required	1.1, 1.3 1.5	96
	Packing required	1.2, 1.4	96
	8 bit data	1.1, 1.2	96
	SMS default alphabet	1.3, 1.4, 1.5	96
	160 bytes length	1.4, 1.5	96
	Alpha identifier	1.6, 1.7, 1.8	96
	UCS2 SMS	2.1	97
	icons	3.1, 3.2	97
	SEND SS 27.22.4.11		96
	call forward unconditional, successful	1.1	96
	call forward unconditional, unsuccessful	1.2	96
	call forward unconditional, network currently unable to process command	1.3	96
	SS request size limit	1.4	96
	Alpha identifier	1.5, 1.6	96
	UCS2 display	3.1	97
	icons	2.1, 2.2, 2.3, 2.4	98

<u>SEND USSD 27.22.4.12</u>			<u>96</u>
	<u>call forward unconditional, successful</u>	<u>1.1</u>	<u>96</u>
	<u>call forward unconditional, unsuccessful</u>	<u>1.2</u>	<u>96</u>
	<u>call forward unconditional, network currently unable to process command</u>	<u>1.3</u>	<u>96</u>
	<u>SS request size limit</u>	<u>1.4</u>	<u>96</u>
	<u>Alpha identifier</u>	<u>1.5, 1.6</u>	<u>96</u>
	<u>UCS2 display</u>	<u>3.1</u>	<u>97</u>
	<u>icons</u>	<u>2.1, 2.2, 2.3, 2.4</u>	<u>98</u>
<u>SET UP CALL 27.22.4.13</u>			<u>96</u>
	<u>Call confirmed by the user and connected</u>	<u>1.1</u>	<u>96</u>
	<u>call rejected by the user</u>	<u>1.2</u>	<u>96</u>
	<u>redial</u>	<u>1.3</u>	<u>96</u>
	<u>putting all other calls on hold, ME busy</u>	<u>1.4</u>	<u>96</u>
	<u>disconnecting all other calls, ME busy</u>	<u>1.5</u>	<u>96</u>
	<u>only if not currently busy on another call, ME busy</u>	<u>1.6</u>	<u>96</u>
	<u>putting all other calls on hold, call hold is not allowed</u>	<u>1.7</u>	<u>96</u>
	<u>Capability configuration</u>	<u>1.8</u>	<u>96</u>
	<u>long dialing number string</u>	<u>1.9</u>	<u>96</u>
	<u>long first alpha identifier</u>	<u>1.10</u>	<u>96</u>
	<u>Called party subaddress</u>	<u>1.11</u>	<u>96</u>
	<u>maximum duration for the redial mechanism</u>	<u>1.12</u>	<u>96</u>
	<u>second alpha identifier</u>	<u>2.1</u>	<u>98</u>
	<u>icons</u>	<u>3.1,3.2, 3.3, 3.4</u>	<u>98</u>
<u>POLLING OFF 27.22.4.14</u>		<u>1.1</u>	<u>96</u>
<u>PROVIDE LOCAL INFO 27.22.4.15</u>			<u>96</u>
	<u>location information</u>	<u>1.1</u>	<u>96</u>

	<u>IMEI</u>	<u>1.2</u>	<u>96</u>
	<u>network measurement results and BCCH channel list</u>	<u>1.3</u>	<u>98</u>
	<u>Date, time and time zone</u>	<u>1.4</u>	<u>98</u>
	<u>language setting</u>	<u>1.5</u>	<u>99</u>
	<u>timing advance</u>	<u>1.6</u>	<u>99</u>
<u>SET UP EVENT LIST</u> <u>27.22.4.16</u>			<u>97</u>
	<u>Set up call connected event</u>	<u>1.1</u>	<u>97</u>
	<u>Replace by new event list</u>	<u>1.2</u>	<u>97</u>
	<u>Remove event</u>	<u>1.3</u>	<u>97</u>
	<u>Remove Event on ME Power Cycle</u>	<u>1.4</u>	<u>97</u>
<u>PERFORM CARD APDU</u> <u>27.22.4.17</u>			<u>98</u> <u>class</u> <u>"a"</u>
	<u>Additional card inserted, Select MF and Get Response</u>	<u>1.1</u>	
	<u>Additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN</u>	<u>1.2</u>	
	<u>Additional card inserted, card powered off</u>	<u>1.3</u>	
	<u>No card inserted, card powered off</u>	<u>1.4</u>	
	<u>Invalid card reader identifier</u>	<u>1.5</u>	
	<u>Card reader detached</u>	<u>2.1</u>	
<u>POWER OFF CARD</u> <u>27.22.4.18</u>			<u>98</u> <u>class</u> <u>"a"</u>
	<u>Additional card inserted</u>	<u>1.1</u>	
	<u>No card inserted</u>	<u>1.2</u>	
	<u>Detachable card reader</u>	<u>2.1</u>	
<u>POWER ON CARD</u> <u>27.22.4.19</u>			<u>98</u> <u>class</u> <u>"a"</u>
	<u>Additional card inserted</u>	<u>1.1</u>	
	<u>No ATR</u>	<u>1.2</u>	

	No card inserted	1.3	
	Detachable card reader	2.1	
GET READER STATUS 27.22.4.20			98 class "a"
	Additional card inserted, card powered	1.1	
	Additional card inserted, card not powered	1.2	
	Additional card inserted, card not present	1.3	
	Detachable card reader	2.1	
TIMER MANAGEMENT 27.22.4.21.1			98
	set ,stop and query timer	1.1 to 1.8	98
	action in contradiction with the current timer state	1.9, 1.10	
	Start 8 timers	1.11	
ENVELOPPE TIMER EXPIRATION 27.22.4.21.2			98
	Timer expiration	2.1	
	Timer expiration, SIM busy	2.2	
SET UP IDLE MODE TEXT 27.22.4.22			98
	Display idle mode text	1.1	
	Replace idle mode text	1.2	
	Remove idle mode test	1.3	
	Competing information on ME display	1.4	
	ME powered cycled	1.5	
	Refresh with SIM initialisation	1.6	
	Large text string	1.7	
	icon	2.1, 2.2,	

		<u>2.3, 2.4</u>	
	<u>UCS2</u>	<u>3.1</u>	
<u>RUN AT COMMAND</u> <u>27.22.4.23</u>			<u>98</u> <u>class</u> <u>"b"</u>
<u>SEND DTMF</u> <u>27.22.4.24</u>			<u>98</u>
	<u>A call has been successfully established before the beginning of the test</u>	<u>1.1</u>	
	<u>alpha identifier</u>	<u>1.2, 1.3</u>	
	<u>Mobile is not in a speech call</u>	<u>1.4</u>	
	<u>icons</u>	<u>2.1, 2.2,</u> <u>2.3</u>	
	<u>UCS2 display</u>	<u>3.1</u>	
<u>LANGUAGE NOTIFICATION</u> <u>27.22.4.25</u>			<u>99</u>
	<u>Specific language notification</u>	<u>1.1</u>	
	<u>Non specific language notification</u>	<u>1.2</u>	
<u>LAUNCH BROWSER</u> <u>27.22.4.26</u>			<u>99</u> <u>class</u> <u>"c"</u>
<u>OPEN CHANNEL</u> <u>27.22.4.27</u>			<u>99</u> <u>class</u> <u>"e"</u>
<u>CLOSE CHANNEL</u> <u>27.22.4.28</u>			<u>99</u> <u>class</u> <u>"e"</u>
<u>RECEIVE DATA</u> <u>27.22.4.29</u>			<u>99</u> <u>class</u> <u>"e"</u>
<u>SEND DATA</u>			<u>99</u> <u>class</u>

<u>27.22.4.30</u>			<u>"e"</u>
<u>GET CHANNEL STATUS</u> <u>27.22.4.31</u>			<u>99</u> class <u>"e"</u>
<u>DATA DOWNLOAD TO SIM</u> <u>27.22.5</u>			<u>96</u>
<u>SMS-PP DATA</u> <u>DOWNLOAD</u> <u>27.22.5.1</u>			<u>96</u>
	<u>General data coding, SIM responds with '90 00'</u>	<u>1.1</u>	
	<u>SIM responds with '91 XX'</u>	<u>1.2</u>	
	<u>More time</u>	<u>1.3</u>	
	<u>8 bit alphabet</u>	<u>1.4</u>	
	<u>Data coding / message class</u>	<u>1.5, 1.6</u>	
<u>SMS-CB DATA</u> <u>DOWNLOAD</u> <u>27.22.5.2</u>			<u>96</u>
	<u>ME does not display message</u>	<u>1.1</u>	
	<u>More time</u>	<u>1.2</u>	
	<u>ME displays message</u>	<u>1.3</u>	
<u>CALL AND MO SMS</u> <u>CONTROL BY SIM</u> <u>27.22.6</u>			<u>96</u>
	<u>Cell identity in envelope call control</u>	<u>1.1 to 1.9, 2.1 to 2.4, 3.1 to 3.5 4.1 to 4.4</u>	<u>97</u>
	<u>MO SMS control by SIM</u>		<u>97</u>
<u>EVENT DOWNLOAD</u> <u>27.22.7</u>			<u>97</u>
<u>27.22.7.1</u>	<u>MT call event</u>		<u>97</u>
<u>27.22.7.2</u>	<u>call connected event</u>		<u>97</u>

27.22.7.3	call disconnected event		97
27.22.7.4	location status event		97
27.22.7.5	user activity event		97
27.22.7.6	idle screen available event		97
27.22.7.7	card reader status event		98 class "a"
27.22.7.8	language selection event		99
27.22.7.9	Browser termination event		99 class "c"
27.22.7.10	Data available event		99 class "e"
27.22.7.11	Channel status event		99 class "e"

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

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

27.22.X.X. 1.3 Test Purpose

This section details the purpose of the test.

27.22.X.X. 1.4 Method of test

27.22.X.X. 1.4.1. Initial Conditions

If present this section defines the initial conditions to be established before running 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	SELECT EF PHASE 1.2	
11...	ME → SIM	READ BINARY (EF PHASE) 1.3	Expected PHASE = 03 returned by SIM
120	ME → SIM	TERMINAL PROFILE 1.41A	PROFILE DOWNLOAD
13+	SIM → ME	NORMAL ENDING OF COMMAND 1.1A	
...			
142	ME → SIM	SELECT EF IMSI 1.5 or SELECT EF LOCI 1.6	

VERIFY CHV1 : 1.1A

Logically:

Coding:

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

VERIFY CHV1 ATTEMPT UNSUCCESSFUL : 1.1A

Logically:

Coding: ~~XX~~...

SW1=98 SW2=04

VERIFY CHV1 : 1.1B

Logically:

Coding:

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

NORMAL ENDING OF COMMAND : 1.1A

Logically:

Coding:

~~XX~~...

SW1=90 SW2=00

SELECT EF PHASE : 1.2Logically:Coding:

APDU: CLA=A0 INS=A4 P1=00 P2=00 P3=02
DATA IN: 6F AE
Response
SW1=9F SW2=0F

SW1= 9F , SW2= 0F**READ BINARY (EF PHASE) : 1.3**Logically:Coding:

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

Response
DATA OUT: 03

SW1=90 SW2=00

TERMINAL PROFILE : 1.41A

Logically:

Coding: ~~XX~~...APDU: CLA=A0 INS=10 P1=00 P2=01 P3=XXDATA IN: YY ZZ ...

With XX represent the length of the following DATA IN depending on the SIM Toolkit commands supported by the ME, and YY, ZZ, ... representing here the bytes of the TERMINAL PROFILE data, as specified in the 11.14 [15], clause 5.2

SELECT EF IMSI : 1.51A

Logically:

Coding: ~~XX~~...APDU: CLA=A0 INS=A4 P1=00 P2=00 P3=02DATA IN: 6F 07**SELECT EF LOCI : 1.61A**

Logically:

Coding: ~~XX~~...APDU: CLA=A0 INS=A4 P1=00 P2=00 P3=02DATA IN: 6F 7E**27.22.1.5 Test Requirement**

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

27.22.2 Contents of the TERMINAL PROFILE command**27.22.2.1 Definition and applicability**

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

This test applies to all MEs supporting SIM Application Toolkit.

27.22.2.2 Conformance requirement

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

27.22.2.3 Test Purpose

1. Verify that the TERMINAL PROFILE indicates that Profile Download facility is supported.
2. Record which SIM Application Toolkit facilities are supported by the ME, to determine which subsequent tests are required.

27.22.2.4 Method of Test

27.22.2.4.1 Initial Conditions

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

27.22.1.4.2 Procedure

- a) The ME is powered on.
- b) After the ME sends the TERMINAL PROFILE command to the SIM Simulator, the SIM Simulator shall record the content of the TERMINAL PROFILE.
- c) The SIM Simulator shall return SW1 / SW2 of '90 00'.

The test is terminated upon the ME sending the TERMINAL PROFILE command to the SIM Simulator.

27.22.2.5 Test Requirement

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

27.22.3 Servicing of Proactive SIM Commands

27.22.3.1 Definition and applicability

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

27.22.3.2 Conformance requirement

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

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

TS GSM 11.14 [15] clause 6.3.

27.22.3.3 Test Purpose

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

To verify that the ME transmits the result of execution of the proactive SIM command to the SIM in the TERMINAL RESPONSE command.

27.22.3.4 Method of test

27.22.3.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

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

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

The SIM Simulator is configured to monitor the SIM - ME interface.

27.22.3.4.2 Procedure

- a) The ME is powered on.
- b) After the ME has performed the PROFILE DOWNLOAD procedure, the SIM Simulator indicates that a Proactive SIM Command is pending with SW1 / SW2 of '91 0B'.
- c) After the ME sends the FETCH command to the SIM Simulator, the SIM Simulator returns Proactive SIM Command 2.1: MORE TIME.

27.22.3.5 Test Requirement

- 1) After step b) the ME shall send the FETCH command to the SIM.
- 2) After step c) the ME shall send the TERMINAL 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	
3	ME → SIM	PENDING: DISPLAY TEXT 1.2.1	
4	SIM → ME	FETCH	
5	SIM → ME	PROACTIVE COMMAND : DISPLAY TEXT 1.2.1	[Normal priority]
6	ME → USER	No change of the currently being used display.	
7	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 :	[High priority]
4	ME → USER	DISPLAY TEXT 1.3.1 Display "Toolkit Test 2"	
5	USER → ME	Clear Message	
6	ME → SIM	TERMINAL RESPONSE :	
7	SIM → ME	DISPLAY TEXT 1.3.1 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 :	[Packed, SMS default alphabet]
4	ME → USER	DISPLAY TEXT 1.4.1 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	
2	ME → SIM	PENDING: DISPLAY TEXT 1.5.1	
3	SIM → ME	PROACTIVE COMMAND :	[Clear message after a delay]
4	ME → USER	DISPLAY TEXT 1.5.1 Display "Toolkit Test 4" and clear this message after a short delay	
5	ME → SIM	TERMINAL RESPONSE :	[Command performed successfully]
6	SIM → ME	DISPLAY TEXT 1.5.1 PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : DISPLAY TEXT 1.5.1

Logically:

Command details

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

Device identities

Source device: SIM
 Destination device: Display

Text string

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

Coding:

```

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

TERMINAL RESPONSE : DISPLAY TEXT 1.5.1

Logically:

Command details

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

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

```

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

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

Step	Direction	MESSAGE / Action	Comments
------	-----------	------------------	----------

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

PROACTIVE COMMAND : DISPLAY TEXT 1.6.1

Logically:

Command details

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

Device identities

Source device: SIM
 Destination device: Display

Text String

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

Coding:

BER-TLV:	D0	81	AD	81	03	01	21	80	82	02	81	02
	8D	81	A1	04	54	68	69	73	20	63	6F	6D
	6D	61	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 [Command data not understood by ME (clause 6.5.4)]
4	ME → SIM	TERMINAL RESPONSE : DISPLAY TEXT 1.9.1	
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 : DISPLAY TEXT 2.1.1	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
4	ME → USER	Display "<TIME-OUT>"	
6	ME → SIM	TERMINAL RESPONSE : DISPLAY TEXT 2.1.1	[No response from user]
7	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND : DISPLAY TEXT 2.1.1

Logically:

Command details

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

Device identities

Source device: SIM
 Destination device: Display

Text string

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

Coding:

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

TERMINAL RESPONSE : DISPLAY TEXT 2.1.1

Logically:

Command details

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

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: No response from user

Coding:

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

27.22.4.1.2.5 Test Requirement

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

27.22.4.1.3 DISPLAY TEXT (Display of extension text)

27.22.4.1.3.1 Definition and applicability

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

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

27.22.4.1.3.2 Conformance requirement

27.22.4.1.3.3 Test Purpose

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

27.22.4.1.3.4 Method of test

27.22.4.1.3.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM Application Toolkit default.

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

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

27.22.4.1.3.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND	
2	ME → SIM	PENDING: DISPLAY TEXT 3.1.1	
3	SIM → ME	FETCH	
4	ME → USER	PROACTIVE COMMAND : DISPLAY TEXT 3.1.1 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"	[Text string with the maximum of 240 bytes]
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
----------	----	----	----	----	----	----	----	----	----	----	----	----

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

27.22.4.1.4 DISPLAY TEXT (Sustained text)

27.22.4.1.4.1 Definition and applicability

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

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

27.22.4.1.4.2 Conformance requirement

27.22.4.1.4.3 Test Purpose

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

27.22.4.1.4.4 Method of test

27.22.4.1.4.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM Application Toolkit default.

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

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

27.22.4.1.4.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND	
2	ME → SIM	PENDING: DISPLAY TEXT 4.1.1	
3	SIM → ME	FETCH	
4	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 :	
7	SIM → ME	DISPLAY TEXT 4.1.1	[Command performed successfully]
7	SIM → ME	PROACTIVE SIM SESSION ENDED	
8	ME → USER	Display of "Toolkit Test 1" shall sustain	Text shall sustain until - a subsequent proactive command is received containing display data.

PROACTIVE COMMAND : DISPLAY TEXT 4.1.1

Logically:

```

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

Coding:

```

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

TERMINAL RESPONSE : DISPLAY TEXT 4.1.1

Logically:

```

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

Coding:

```

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

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

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

PROACTIVE COMMAND : DISPLAY TEXT 4.2.1

Logically:

Command details
 Command number: 1
 Command type: DISPLAY TEXT
 Command qualifier: normal priority, clear message after a delay
 Device identities
 Source device: SIM
 Destination device: Display
 Text String
 Data coding scheme: unpacked, 8 bit data
 Text: "Toolkit Test 2"
 Immediate Response

Coding:

```

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

TERMINAL RESPONSE : DISPLAY TEXT 4.2.1

Logically:

Command details
 Command number: 1
 Command type: DISPLAY TEXT
 Command qualifier: normal priority, clear message after a delay
 Device identities
 Source device: ME
 Destination device: SIM
 Result
 General Result: Command performed successfully

Coding:

```

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

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

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

PROACTIVE COMMAND : DISPLAY TEXT 4.3.1

Logically:

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

Coding:

```

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

TERMINAL RESPONSE : DISPLAY TEXT 4.3.1

Logically:

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

Coding:

```

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

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

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

PROACTIVE COMMAND : DISPLAY TEXT 4.4.1

Logically:

Command details

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

Device identities

Source device: SIM
 Destination device: Display

Text String

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

Immediate Response

Coding:

BER-TLV:	D0	1C	81	03	01	21	80	82	02	81	02	8D
	0F	04	54	6F	6F	6C	6B	69	74	20	54	65
	73	74	20	34	AB	00						

TERMINAL RESPONSE : DISPLAY TEXT 4.4.1

Logically:

Command details

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

Device identities

Source device: ME
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

27.22.4.1.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 1 to 4.

27.22.4.1.5 DISPLAY TEXT (Display of icons)**27.22.4.1.5.1 Definition and applicability**

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

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

27.22.4.1.5.2 Conformance requirement

27.22.4.1.5.3 Test Purpose

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

27.22.4.1.5.4 Method of test

27.22.4.1.5.4.1 Initial Conditions

See Annex C

27.22.4.1.5.4.2 Procedure

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

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

PROACTIVE COMMAND : DISPLAY TEXT 5.1.1

Logically:

Command details

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

Device identities

Source device: SIM
 Destination device: Display

Text String

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

Icon Identifier:

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

Logically:

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

Coding:

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

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

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

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

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:

<u>BER-TLV:</u>	<u>81</u>	<u>03</u>	<u>01</u>	<u>21</u>	<u>80</u>	<u>82</u>	<u>02</u>	<u>82</u>	<u>81</u>	<u>83</u>	<u>01</u>	<u>00</u>
-----------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

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
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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

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

~~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

~~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""	
5	USER → ME	Enter the input "0" and completion	Text string coding in packed format
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 01 82 02 81 82 8D
 09 00 45 37 BD 2C 07 89 60 22

~~BER-TLV: D0 14 81 03 01 22 0100 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 81 82 02 82 81 83 01 00
 8D 02 04 00

~~BER-TLV: 81 03 01 22 8180 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>"	
5	USER → ME	Backwards move MMI action	Text string coding in unpacked format
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

~~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

~~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
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
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

~~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

~~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/digits only, no help info available]
4	ME → USER	Display "Enter "x". This command instructs the ME to display text, and to expect the user to enter a single character. Any response entered by the user shall be passed t "	160 characters Text string coding in unpacked format
5	USER → ME	Enter the input "x" and completion	
6	ME → SIM	TERMINAL RESPONSE : GET INKEY 1.6.1	[command performed successfully]

PROACTIVE COMMAND : GET INKEY 1.6.1

Logically:

Command details

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

Device identities

Source device: SIM
 Destination device: ME

Text string

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

Coding:

BER-TLV: D0 81 AC 81 03 01 22 01 82 02 81 82
8D 81 A1 04 45 6E 74 65 72 20 22 78
22 2E 20 54 68 69 73 20 63 6F 6D 6D
61 6E 64 20 69 5E 73 74 72 75 63 74
73 20 74 68 65 20 4D 45 20 74 6F 20
64 69 73 70 6C 61 79 20 74 65 78 74
2C 20 61 6E 64 20 74 6F 20 65 78 70
65 63 74 20 74 68 65 20 75 73 65 72
20 74 6F 20 65 6E 74 65 72 20 61 20
73 69 6E 67 6C 65 20 53 68 61 72 61
63 74 65 72 2E 20 41 6E 79 20 72 65
73 70 6F 6E 73 65 20 65 6E 74 65 72
65 64 20 62 79 20 74 68 65 20 75 73
65 72 20 73 68 61 6C 6C 20 62 65 20
70 61 73 73 65 64 20 74

~~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

~~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

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

27.22.4.2.2.3 Test Purpose

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

27.22.4.2.2.4 Method of Test

27.22.4.2.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

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

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

27.22.4.2.2.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INKEY 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : GET INKEY 2.1.1	[digits only, no help information available]
4	ME → USER	Display "<TIME-OUT>"	Text string coding in unpacked format
5	USER	Waiting and no completion	
6	ME → SIM	TERMINAL RESPONSE : GET INKEY 2.1.1	after a delay [No response from user]
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

~~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
~~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 as defined in the following technical specifications:

ISO/IEC 10646 [17].

27.22.4.2.3.2 Conformance Requirement

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

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

ISO/IEC 10646 [17].

27.22.4.2.3.3 Test Purpose

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

27.22.4.2.3.4 Method of Test

27.22.4.2.3.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

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

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

27.22.4.2.3.4.2 Procedure

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

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

~~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

~~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

<u>04</u>	<u>22</u>	<u>04</u>	<u>15</u>	<u>04</u>	<u>17</u>	<u>04</u>	<u>14</u>	<u>04</u>	<u>20</u>	<u>04</u>	<u>10</u>
<u>04</u>	<u>12</u>	<u>04</u>	<u>21</u>	<u>04</u>	<u>22</u>	<u>04</u>	<u>12</u>	<u>04</u>	<u>23</u>	<u>04</u>	<u>19</u>
<u>04</u>	<u>22</u>	<u>04</u>	<u>15</u>	<u>04</u>	<u>17</u>	<u>04</u>	<u>14</u>	<u>04</u>	<u>20</u>	<u>04</u>	<u>10</u>
<u>04</u>	<u>12</u>	<u>04</u>	<u>21</u>	<u>04</u>	<u>22</u>	<u>04</u>	<u>12</u>	<u>04</u>	<u>23</u>	<u>04</u>	<u>19</u>
<u>04</u>	<u>22</u>	<u>04</u>	<u>15</u>	<u>04</u>	<u>17</u>	<u>04</u>	<u>14</u>	<u>04</u>	<u>20</u>	<u>04</u>	<u>10</u>
<u>04</u>	<u>12</u>	<u>04</u>	<u>21</u>	<u>04</u>	<u>22</u>	<u>04</u>	<u>12</u>	<u>04</u>	<u>23</u>	<u>04</u>	<u>19</u>
<u>04</u>	<u>22</u>	<u>04</u>	<u>15</u>	<u>04</u>	<u>17</u>	<u>04</u>	<u>14</u>	<u>04</u>	<u>20</u>	<u>04</u>	<u>10</u>
<u>04</u>	<u>12</u>	<u>04</u>	<u>21</u>	<u>04</u>	<u>22</u>	<u>04</u>	<u>12</u>	<u>04</u>	<u>23</u>	<u>04</u>	<u>19</u>
<u>04</u>	<u>22</u>	<u>04</u>	<u>15</u>	<u>04</u>	<u>17</u>	<u>04</u>	<u>14</u>	<u>04</u>	<u>20</u>	<u>04</u>	<u>10</u>
<u>04</u>	<u>12</u>	<u>04</u>	<u>21</u>	<u>04</u>	<u>22</u>	<u>04</u>	<u>12</u>	<u>04</u>	<u>23</u>	<u>04</u>	<u>19</u>

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

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

27.22.4.2.3.5 Test Requirement

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

27.22.4.2.4 GET INKEY (UCS2 format of entry)

27.22.4.2.4.1 Definition and applicability

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

~~Additionally this test only if ME's support the GET INKEY proactive SIM facility and UCS2 format of entry facility. ISO/IEC 10646 [17].~~

27.22.4.2.4.2 Conformance Requirement

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

~~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 11 81 03 01 22 03 82 02 81 82 8D
 06 04 45 6E 74 65 72

~~BER-TLV: D0 11B 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

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

27.22.4.2.4.5 Test Requirement

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

27.22.4.2.5 GET INKEY ("Yes/No" Response)

27.22.4.2.5.1 Definition and applicability

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

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

27.22.4.2.5.2 Conformance Requirement

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

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

~~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

~~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

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

## 27.22.4.2.5.5          Test Requirement

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

## 27.22.4.2.6          GET INKEY (display of Icon)

## 27.22.4.2.6.1          Definition and applicability

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

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

## 27.22.4.2.6.2          Conformance Requirement

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

## 27.22.4.2.6.3          Test Purpose

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

## 27.22.4.2.6.4          Method of Test

## 27.22.4.2.6.4.1          Initial Conditions

See Annex C

27.22.4.2.6.4.2 Procedure

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

| Step | Direction | MESSAGE / Action                                                                                        | Comments                                                                                                                   |
|------|-----------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: GET INKEY 6.1.1                                                           |                                                                                                                            |
| 2    | ME → SIM  | FETCH                                                                                                   |                                                                                                                            |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>INKEY 6.1.1                                                                  | [BASIC-ICON self-explanatory for the Text<br>string]                                                                       |
| 4    | ME → USER | Display the BASIC-ICON for the<br>prompt<br>Or<br>Display the text string<br>"<NO-ICON>" for the prompt | Text string coding in unpacked format                                                                                      |
| 5    | USER → ME | Enter "+" and completion                                                                                |                                                                                                                            |
| 6    | ME → SIM  | TERMINAL RESPONSE : GET<br>INKEY 6.1.1A<br>Or<br>TERMINAL RESPONSE : GET<br>INKEY 6.1.1B                | Command performed successfully]<br><br>Or<br>[Command performed successfully but<br>requested icon could not be displayed] |

**PROACTIVE COMMAND : GET INKEY 6.1.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Text string

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

Icon Identifier

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

Coding:

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

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

**TERMINAL RESPONSE : GET INKEY 6.1.1A**

Logically:

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

Coding:

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

~~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

~~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<br>PENDING: GET INKEY 6.2.1                                                                            |                                                                                                                             |
| 2    | ME → SIM  | FETCH                                                                                                                    |                                                                                                                             |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>INKEY 6.2.1                                                                                   | [BASIC-ICON non self-explanatory for the<br>Text string]                                                                    |
| 4    | ME → USER | Display "<BASIC-ICON>" and<br>Display the BASIC-ICON for the<br>prompt<br>Or<br>Display "<BASIC-ICON>" for the<br>prompt | Text string coding in unpacked format                                                                                       |
| 5    | USER → ME | Enter the input "+" and<br>completion                                                                                    |                                                                                                                             |
| 6    | ME → SIM  | TERMINAL RESPONSE : GET<br>INKEY 6.2.1A<br>Or<br>TERMINAL RESPONSE : GET<br>INKEY 6.2.1B                                 | [Command performed successfully]<br><br>Or<br>[Command performed successfully but<br>requested icon could not be displayed] |

**PROACTIVE COMMAND : GET INKEY 6.2.1**

Logically:

- Command details
  - Command number: 1
  - Command type: GET INKEY
  - Command qualifier: digits (0-9, \*, # and +) only, no help information available
- Device identities
  - Source device: SIM
  - Destination device: ME
- Text string
  - Data coding scheme: unpacked, 8 bit data
  - Text: "<BASIC-ICON>"
- Icon Identifier
  - Icon qualifier: not self-explanatory
  - Icon identifier: 1 (number of record in EF<sub>Img</sub>)

Coding:

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

~~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    4N3E1E0201~~  
~~01~~

**TERMINAL RESPONSE : GET INKEY 6.2.1A**

Logically:

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

Coding:

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

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

**TERMINAL RESPONSE : GET INKEY 6.2.1B**

Logically:

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

Coding:

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

~~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<br>PENDING: GET INKEY 6.3.1                                            |                                                                                                                             |
| 2    | ME → SIM  | FETCH                                                                                    |                                                                                                                             |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>INKEY 6.3.1                                                   | [COLOUR-ICON self-explanatory for the Text<br>string]                                                                       |
| 4    | ME → USER | Display the COLOUR-ICON for<br>the prompt<br>Or<br>Display "<NO-ICON>" for the<br>prompt | Text string coding in unpacked format                                                                                       |
| 5    | USER → ME | Enter the input "+" and<br>completion                                                    |                                                                                                                             |
| 6    | ME → SIM  | TERMINAL RESPONSE : GET<br>INKEY 6.3.1A<br>Or<br>TERMINAL RESPONSE : GET<br>INKEY 6.3.1B | [Command performed successfully]<br><br>Or<br>[Command performed successfully but<br>requested icon could not be displayed] |

**PROACTIVE COMMAND : GET INKEY 6.3.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Text string

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

Icon Identifier

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

Coding:

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

~~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

~~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

~~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<br>PENDING: GET INKEY 6.4.1                                                                               |                                                                                                                             |
| 2    | ME → SIM  | FETCH                                                                                                                       |                                                                                                                             |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>INKEY 6.4.1                                                                                      | [COLOUR-ICON non self-explanatory for the<br>Text string]                                                                   |
| 4    | ME → USER | Display "<COLOUR-ICON>" and<br>Display the COLOUR-ICON for<br>the prompt<br>Or<br>Display "<COLOUR-ICON>" for<br>the prompt | Text string coding in unpacked format                                                                                       |
| 5    | USER → ME | Enter the input "+" and<br>completion                                                                                       |                                                                                                                             |
| 6    | ME → SIM  | TERMINAL RESPONSE : GET<br>INKEY 6.4.1A<br>Or<br>TERMINAL RESPONSE : GET<br>INKEY 6.4.1B                                    | [Command performed successfully]<br><br>Or<br>[Command performed successfully but<br>requested icon could not be displayed] |

**PROACTIVE COMMAND : GET INKEY 6.4.1**

Logically:

Command details

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

Device identities

- Source device: SIM
- Destination device: ME

Text string

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

Icon Identifier

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

Coding:

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

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

**TERMINAL RESPONSE : GET INKEY 6.4.1A**



## Logically:

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

## Coding:

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

~~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

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

## 27.22.4.2.6.5      Test Requirement

The ME shall operate in the manner defined in expected sequence 1 to 4.

## 27.22.4.2.7      GET INKEY (Help Information)

## 27.22.4.2.7.1      Definition and applicability

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

## 27.22.4.2.7.2      Conformance Requirement

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

## 27.22.4.2.7.3 Test Purpose

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

## 27.22.4.2.7.4 Method of Test

## 27.22.4.2.7.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

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

## 27.22.4.2.7.4.2 Procedure

Expected Sequence 7.1 (GET INKEY, help information available)

| Step | Direction | MESSAGE / Action                                | Comments                                  |
|------|-----------|-------------------------------------------------|-------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: GET INKEY 7.1.1   |                                           |
| 2    | ME → SIM  | FETCH                                           |                                           |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>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<br>INKEY 7.1.1          | [help info required]                      |
| 7    | ME → SIM  | FETCH                                           |                                           |
| 8    | SIM → ME  | PROACTIVE COMMAND :<br>DISPLAY TEXT (help info) |                                           |
| 9    | ME → SIM  | TERMINAL RESPONSE :<br>DISPLAY TEXT (help info) |                                           |
| 10   | ME → SIM  | FETCH                                           |                                           |
| 11   | SIM → ME  | PROACTIVE COMMAND : GET<br>INKEY 7.1.2          | [digits only, help information available] |
| 12   | ME → USER | Display "Enter "+"                              | Repetition of get inkey                   |
| 13   | USER → ME | Enter the input "+" and<br>completion           |                                           |
| 14   | ME → SIM  | TERMINAL RESPONSE : GET<br>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

~~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

~~BER-TLV:    81   03   01   22   80   82   02   82   81   83   01   00~~

**PROACTIVE COMMAND : GET INKEY 7.1.2**

## Logically:

Command details  
 Command number: 1  
 Command type: GET INKEY  
 Command qualifier: digits (0-9, \*, # and +) only, help information available  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Text string  
 Data coding scheme: unpacked, 8 bit data  
 Text: "Enter "+"

## Coding:

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

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

## TERMINAL RESPONSE : GET INKEY 7.1.2

Logically:

### Command details

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

### Device identities

Source device: ME  
 Destination device: SIM

### Result

General Result: Command performed successfully  
 Text String: "+"

Coding:

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

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

### 27.22.4.2.7.5 Test Requirement

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

## 27.22.4.3. GET INPUT

### 27.22.4.3.1 GET INPUT (normal)

#### 27.22.4.3.1.1 Definition and applicability

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

#### 27.22.4.3.1.2 Conformance Requirement

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

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

27.22.4.3.1.3 Test Purpose

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

27.22.4.3.1.4 Method of Test

27.22.4.3.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.3.1.4.2 Procedure

Expected Sequence 1.1 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

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

~~BER-TLV:    D0   1B   81   03   01   23   00   82   02   81   82   8D~~

~~0C 04 45 6E 74 65 72 20 31 32 33 34~~  
~~35 91 02 05 05~~

**TERMINAL RESPONSE : GET INPUT 1.1.1**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully  
 Text string  
 Data coding scheme: unpacked, 8 bit data  
 Text: "12345"

Coding:

BER-TLV: 81 03 01 23 80 82 02 82 81 83 01 00  
~~8D 06 04 31 32 33 34 35~~

~~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<br>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<br>Text string coding in packed format                                |
| 5    | USER → ME | Enter the input "67*#+"" and completion       |                                                                                                       |
| 6    | ME → SIM  | TERMINAL RESPONSE : GET INPUT 1.2.1           | [command performed successfully]                                                                      |

**PROACTIVE COMMAND : GET INPUT 1.2.1**

Logically:

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

Device identities  
 Source device: SIM  
 Destination device: ME

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

Response length  
 Minimum length: 5  
 Maximum length: 5

Coding:

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

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

**TERMINAL RESPONSE : GET INPUT 1.2.1**

Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully  
 Text string  
     Data coding scheme: packed SMS format~~unpacked, 8-bit data~~  
     Text: "67\*#+"

Coding:

BER-TLV:    81    03    01    23    08    82    02    82    81    83    01    00  
                   8D    08    00    36    37    2A    23    2B    22

~~BER-TLV:    81    03    01    23    08    82    02    82    81    83    01    00~~  
~~8D    08    0004    36    37    2A    23    2B    22~~

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

| Step | Direction | MESSAGE / Action                              | Comments                                                                                                    |
|------|-----------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: GET INPUT 1.3.1 |                                                                                                             |
| 2    | ME → SIM  | FETCH                                         |                                                                                                             |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>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<br>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<br>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

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

**TERMINAL RESPONSE : GET INPUT 1.3.1**



Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully  
 Text string  
 Data coding scheme: unpacked, 8 bit data  
 Text: "AbCdE"

Coding:

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

~~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<br>PENDING: GET INPUT 1.4.1 |                                                                                                           |
| 2    | ME → SIM  | FETCH                                         |                                                                                                           |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>INPUT 1.4.1        | [digits only, SMS default alphabet, ME to hide text, packing not required, no help information available] |
| 4    | ME → USER | Display<br>"Password 1<SEND>2345678"          | Range of expected length is 4-8<br>Text string coding in unpacked format                                  |
| 5    | USER → ME | Enter the input "2345678" and<br>completion   |                                                                                                           |
| 6    | ME        | input not displayed                           | optionally indication of key entries such as by displaying "***"                                          |
| 7    | ME → SIM  | TERMINAL RESPONSE : GET<br>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

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

**TERMINAL RESPONSE : GET INPUT 1.4.1**

Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully

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

Coding:

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

~~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<br>PENDING: GET INPUT 1.5.1  |                                                                                                           |
| 2    | ME → SIM   | FETCH                                          |                                                                                                           |
| 3    | SIM → ME   | PROACTIVE COMMAND :<br>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<br>Text string coding in unpacked format                                 |
| 5    | USER → ME  | Completion without input                       |                                                                                                           |
| 6    | MMI ->USER | Display "invalid length"                       |                                                                                                           |
| 7    | USER ->ME  | Enter<br>"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

~~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~~  
~~0114~~

**TERMINAL RESPONSE : GET INPUT 1.5.1**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully  
 Text string  
 Data coding scheme: unpacked, 8 bit data  
 Text: "12345678901234567890"

Coding:

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

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

Expected Sequence 1.6 (GET INPUT, backwards movedigits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message,)

| Step | Direction | MESSAGE / Action                              | Comments                                                                                                  |
|------|-----------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>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<br>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

~~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

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

Expected Sequence 1.7 (GET INPUT, [abortedigits only](#), [SMS default alphabet](#), [ME to echo text](#), [ME supporting 8 bit data Message](#))

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

~~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

~~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<br>PENDING: GET INPUT 1.8.1                                                                                                                                                         |                                                                                                           |
| 2    | ME → SIM  | FETCH                                                                                                                                                                                                 |                                                                                                           |
| 3    | SIM → ME  | PROACTIVE COMMAND :<br>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<br>"***1111111111###**222222<br>222###**3333333333###**4<br>4444444444###**555555555<br>###**6666666666###**7777<br>777777###**8888888888###**<br>**9999999999###**00000000<br>00###"         | Range of length expected is 160-160<br>Text string coding in unpacked format                              |
| 5    | USER → ME | Enter the input<br>"***1111111111###**222222<br>222###**3333333333###**4<br>4444444444###**555555555<br>###**6666666666###**7777<br>777777###**8888888888###**<br>**9999999999###**00000000<br>00###" |                                                                                                           |
| 6    | ME → SIM  | and completion<br>TERMINAL RESPONSE : GET<br>INPUT 1.8.1                                                                                                                                              | [command performed successfully]                                                                          |

**PROACTIVE COMMAND : GET INPUT 1.8.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Text string

Data coding scheme: unpacked, 8 bit data  
 Text:

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

Response length

Minimum length: 160  
 Maximum length: 160

Coding:

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

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

TERMINAL RESPONSE : GET INPUT 1.8.1



Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Text string

Data coding scheme: unpacked, 8 bit data  
 Text: """111111111###\*\*\*222222222###\*\*\*  
 333333333###\*\*\*444444444###  
 \*\*\*555555555###\*\*\*666666666###  
 \*\*\*777777777###\*\*\*888888888###  
 \*\*\*999999999###\*\*\*000000000###"""

Coding:

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

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

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<br>PENDING: GET INPUT 1.9.1 |                                                                                                           |
| 2    | ME → SIM  | FETCH                                         |                                                                                                           |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>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<br>Text string coding in unpacked format                                  |
| 5    | USER → ME | Completion                                    |                                                                                                           |
| 6    | ME → SIM  | TERMINAL RESPONSE : GET<br>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

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

**TERMINAL RESPONSE : GET INPUT 1.9.1**

## Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Text string

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

## Coding:

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

~~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

## 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                   |                                                                                                             |
| 2    | ME → SIM  | PENDING: GET INPUT 2.1.1<br>FETCH   |                                                                                                             |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET INPUT 2.1   | [digits only, SMS default alphabet<br>ME to echo text, packing not required, no help information available] |
| 4    | ME → USER | Display "<TIME-OUT>"                | Range of expected length is 0-10<br>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

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

**TERMINAL RESPONSE : GET INPUT 2.1.1**

## Logically:

|                     |                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Command details     |                                                                                                                               |
| Command number:     | 1                                                                                                                             |
| Command type:       | GET INPUT                                                                                                                     |
| Command qualifier:  | digits (0-9, *, # and +) only, SMS default alphabet, input in unpacked format, ME to echo text, no help information available |
| Device identities   |                                                                                                                               |
| Source device:      | ME                                                                                                                            |
| Destination device: | SIM                                                                                                                           |
| Result              |                                                                                                                               |
| General Result:     | No response from user                                                                                                         |

## Coding:

BER-TLV:    81    03    01    23    00    82    02    82    81    83    01    12

~~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

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<br>PENDING: GET INPUT 3.1.1 |                                                                                                           |
| 2    | ME → SIM  | FETCH                                         |                                                                                                           |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>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<br>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<br>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

~~BER-TLV:    D0   28   81   03   01   23   00   82   02   81   82   8D~~  
~~19   08   04   17   04   14   04   20   04   10   04   12~~  
~~04   21   04   22   04   12   04   23   04   19   04   22~~  
~~04   15   91   02   05   05~~

**TERMINAL RESPONSE : GET INPUT 3.1.1**

Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully  
 Text string  
 Data coding scheme: unpacked, 8 bit data  
 Text: "HELLO"

Coding:

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

~~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<br>PENDING: GET INPUT 3.2.1                                                           |                                                                                                                 |
| 2    | ME → SIM  | FETCH                                                                                                   |                                                                                                                 |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>INPUT 3.2.1                                                                  | [digits only, SMS default alphabet, ME to<br>echo text, packing not required, no help<br>information available] |
| 4    | ME → USER | Display<br>"ЗДРАВСТВУЙТЕЗДРАВСТ<br>ВУЙТЕ<br>ЗДРАВСТВУЙТЕЗДРАВСТВ<br>УЙТЕ<br>ЗДРАВСТВУЙТЕЗДРАВСТВУЙ<br>" | Range of expected length is 5-5<br>Text string length 70 characters, coding in 16<br>bits UCS2 alphabet format  |
| 5    | USER → ME | Enter the input "Hello" and<br>completion                                                               |                                                                                                                 |
| 6    | ME → SIM  | TERMINAL RESPONSE : GET<br>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:

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

~~BER-TLV: ———~~

|                  |               |               |               |               |               |               |               |               |               |               |               |               |
|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <del>—————</del> | <del>D0</del> | <del>81</del> | <del>99</del> | <del>81</del> | <del>03</del> | <del>01</del> | <del>23</del> | <del>00</del> | <del>82</del> | <del>02</del> | <del>81</del> | <del>82</del> |
| <del>—————</del> | <del>8D</del> | <del>81</del> | <del>8D</del> | <del>08</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>—————</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |
| <del>—————</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>15</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>—————</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |
| <del>—————</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>15</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>—————</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |
| <del>—————</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>15</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>—————</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |
| <del>—————</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>15</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>—————</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |

TERMINAL RESPONSE : GET INPUT 3.2.1



## Logically:

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

## Coding:

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

~~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

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<br>PENDING: GET INPUT 4.1.1            |                                                                                                            |
| 2    | ME → SIM  | FETCH                                                    |                                                                                                            |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>INPUT 4.1.1                   | [character set, UCS2 alphabet, ME to echo<br>text, packing not required, no help information<br>available] |
| 4    | ME → USER | Display "enter Hello"                                    | Range of expected length is 5-5<br>Text string coding in unpacked format                                   |
| 5    | USER → ME | Enter the input<br>"ЗДРАВСТВУЙТЕ "                       | "Hello" in Russian, coding in UCS2 format                                                                  |
| 6    | ME → SIM  | and completion<br>TERMINAL RESPONSE : GET<br>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

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

**TERMINAL RESPONSE : GET INPUT 4.1.1**

Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully  
 Text string  
 Data coding scheme: UCS2  
 Text: "ЗДРАВСТВУЙТЕ"

Coding:

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

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

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

| Step | Direction | MESSAGE / Action                                                                                                     | Comments                                                                                             |
|------|-----------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>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<br>"Enter Hello:"                                                                                            | Range of expected length is no limit                                                                 |
| 5    | USER → ME | Enter the input<br>"ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ<br>ЗДРАВСТВУЙТЕЗДРАВСТВУЙТЕ<br>ЗДРАВСТВУЙТЕЗДРАВСТВУЙ<br>and completion | Text string coding in unpacked format<br>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

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

**TERMINAL RESPONSE : GET INPUT 4.2.1**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully  
 Data coding scheme: UCS2  
 Text: "ЗДРАВСТВУЙТЕ...ЗДРАВСТВУЙ" (70 chars)

Coding:

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

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

|               |               |               |               |               |               |               |               |               |               |               |               |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <del>8D</del> | <del>81</del> | <del>8D</del> | <del>08</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |
| <del>04</del> | <del>22</del> | <del>04</del> | <del>15</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |
| <del>04</del> | <del>22</del> | <del>04</del> | <del>15</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |
| <del>04</del> | <del>22</del> | <del>04</del> | <del>15</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |
| <del>04</del> | <del>22</del> | <del>04</del> | <del>15</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |
| <del>04</del> | <del>22</del> | <del>04</del> | <del>15</del> | <del>04</del> | <del>17</del> | <del>04</del> | <del>14</del> | <del>04</del> | <del>20</del> | <del>04</del> | <del>10</del> |
| <del>04</del> | <del>12</del> | <del>04</del> | <del>21</del> | <del>04</del> | <del>22</del> | <del>04</del> | <del>12</del> | <del>04</del> | <del>23</del> | <del>04</del> | <del>19</del> |

#### 27.22.4.3.4.5 Test Requirement

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

#### 27.22.4.3.5 GET INPUT (default text)

##### 27.22.4.3.5.1 Definition and applicability

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

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

##### 27.22.4.3.5.2 Conformance Requirement

##### 27.22.4.3.5.3 Test Purpose

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

##### 27.22.4.3.5.4 Method of Test

###### 27.22.4.3.5.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

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

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

27.22.4.3.5.4.2 Procedure

Expected Sequence 5.1(GET INPUT, default text for the input, successful)

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

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

**TERMINAL RESPONSE : GET INPUT 5.1.1**

Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully  
 Text string  
 Data coding scheme: unpacked, 8 bit data  
 Text: "12345"

Coding:

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

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

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

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

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

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

TERMINAL RESPONSE : GET INPUT 5.2.1



Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully  
 Data coding scheme: unpacked, 8 bit data  
 Text:

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

Coding:

|                 |           |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>81</u> | <u>03</u> | <u>01</u> | <u>23</u> | <u>00</u> | <u>82</u> | <u>02</u> | <u>82</u> | <u>81</u> | <u>83</u> | <u>01</u> | <u>00</u> |
|                 | <u>17</u> | <u>81</u> | <u>A0</u> | <u>04</u> | <u>2A</u> | <u>2A</u> | <u>2A</u> | <u>31</u> | <u>31</u> | <u>31</u> | <u>31</u> | <u>31</u> |
|                 | <u>31</u> | <u>31</u> | <u>31</u> | <u>31</u> | <u>31</u> | <u>23</u> | <u>23</u> | <u>23</u> | <u>2A</u> | <u>2A</u> | <u>2A</u> | <u>32</u> |
|                 | <u>32</u> | <u>32</u> | <u>32</u> | <u>32</u> | <u>32</u> | <u>32</u> | <u>32</u> | <u>32</u> | <u>32</u> | <u>23</u> | <u>23</u> | <u>23</u> |
|                 | <u>2A</u> | <u>2A</u> | <u>2A</u> | <u>33</u> | <u>33</u> | <u>33</u> | <u>33</u> | <u>33</u> | <u>33</u> | <u>33</u> | <u>33</u> | <u>33</u> |
|                 | <u>33</u> | <u>23</u> | <u>23</u> | <u>23</u> | <u>2A</u> | <u>2A</u> | <u>2A</u> | <u>34</u> | <u>34</u> | <u>34</u> | <u>34</u> | <u>34</u> |
|                 | <u>34</u> | <u>34</u> | <u>34</u> | <u>34</u> | <u>34</u> | <u>23</u> | <u>23</u> | <u>23</u> | <u>2A</u> | <u>2A</u> | <u>2A</u> | <u>35</u> |
|                 | <u>35</u> | <u>35</u> | <u>35</u> | <u>35</u> | <u>35</u> | <u>35</u> | <u>35</u> | <u>35</u> | <u>35</u> | <u>23</u> | <u>23</u> | <u>23</u> |
|                 | <u>2A</u> | <u>2A</u> | <u>2A</u> | <u>36</u> | <u>36</u> | <u>36</u> | <u>36</u> | <u>36</u> | <u>36</u> | <u>36</u> | <u>36</u> | <u>36</u> |
|                 | <u>36</u> | <u>23</u> | <u>23</u> | <u>23</u> | <u>2A</u> | <u>2A</u> | <u>2A</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> |
|                 | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>23</u> | <u>23</u> | <u>23</u> | <u>2A</u> | <u>2A</u> | <u>2A</u> | <u>38</u> |
|                 | <u>38</u> | <u>38</u> | <u>38</u> | <u>38</u> | <u>38</u> | <u>38</u> | <u>38</u> | <u>38</u> | <u>38</u> | <u>23</u> | <u>23</u> | <u>23</u> |
|                 | <u>2A</u> | <u>2A</u> | <u>2A</u> | <u>39</u> | <u>39</u> | <u>39</u> | <u>39</u> | <u>39</u> | <u>39</u> | <u>39</u> | <u>39</u> | <u>39</u> |
|                 | <u>39</u> | <u>23</u> | <u>23</u> | <u>23</u> | <u>2A</u> | <u>2A</u> | <u>2A</u> | <u>30</u> | <u>30</u> | <u>30</u> | <u>30</u> | <u>30</u> |
|                 | <u>D0</u> | <u>1D</u> | <u>81</u> | <u>03</u> | <u>01</u> | <u>23</u> | <u>00</u> | <u>82</u> | <u>02</u> | <u>81</u> | <u>82</u> | <u>8D</u> |
|                 | <u>0A</u> | <u>04</u> | <u>3C</u> | <u>4E</u> | <u>4F</u> | <u>2D</u> | <u>49</u> | <u>43</u> | <u>4F</u> | <u>4E</u> | <u>3E</u> | <u>91</u> |
|                 | <u>02</u> | <u>00</u> | <u>0A</u> | <u>1E</u> | <u>02</u> | <u>00</u> | <u>01</u> | <u>30</u> | <u>30</u> | <u>30</u> | <u>30</u> | <u>30</u> |
|                 | <u>23</u> | <u>23</u> | <u>23</u> |           |           |           |           |           |           |           |           |           |

|                     |               |               |               |               |               |               |               |               |               |               |               |               |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <del>BER-TLV:</del> | <del>81</del> | <del>03</del> | <del>01</del> | <del>23</del> | <del>00</del> | <del>82</del> | <del>02</del> | <del>82</del> | <del>81</del> | <del>83</del> | <del>01</del> | <del>00</del> |
|                     | <del>17</del> | <del>81</del> | <del>A0</del> | <del>04</del> | <del>2A</del> | <del>2A</del> | <del>2A</del> | <del>31</del> | <del>31</del> | <del>31</del> | <del>31</del> | <del>31</del> |
|                     | <del>31</del> | <del>31</del> | <del>31</del> | <del>31</del> | <del>23</del> | <del>23</del> | <del>23</del> | <del>2A</del> | <del>2A</del> | <del>2A</del> | <del>32</del> | <del>31</del> |
|                     | <del>32</del> | <del>32</del> | <del>32</del> | <del>32</del> | <del>32</del> | <del>32</del> | <del>32</del> | <del>32</del> | <del>32</del> | <del>23</del> | <del>23</del> | <del>23</del> |
|                     | <del>2A</del> | <del>2A</del> | <del>2A</del> | <del>33</del> | <del>33</del> | <del>33</del> | <del>33</del> | <del>33</del> | <del>33</del> | <del>33</del> | <del>33</del> | <del>33</del> |
|                     | <del>33</del> | <del>23</del> | <del>23</del> | <del>23</del> | <del>2A</del> | <del>2A</del> | <del>2A</del> | <del>34</del> | <del>34</del> | <del>34</del> | <del>34</del> | <del>34</del> |
|                     | <del>34</del> | <del>34</del> | <del>34</del> | <del>34</del> | <del>34</del> | <del>23</del> | <del>23</del> | <del>23</del> | <del>2A</del> | <del>2A</del> | <del>2A</del> | <del>35</del> |
|                     | <del>35</del> | <del>35</del> | <del>35</del> | <del>35</del> | <del>35</del> | <del>35</del> | <del>35</del> | <del>35</del> | <del>35</del> | <del>23</del> | <del>23</del> | <del>23</del> |
|                     | <del>2A</del> | <del>2A</del> | <del>2A</del> | <del>36</del> | <del>36</del> | <del>36</del> | <del>36</del> | <del>36</del> | <del>36</del> | <del>36</del> | <del>36</del> | <del>36</del> |
|                     | <del>36</del> | <del>23</del> | <del>23</del> | <del>23</del> | <del>2A</del> | <del>2A</del> | <del>2A</del> | <del>37</del> | <del>37</del> | <del>37</del> | <del>37</del> | <del>37</del> |
|                     | <del>37</del> | <del>37</del> | <del>37</del> | <del>37</del> | <del>37</del> | <del>23</del> | <del>23</del> | <del>23</del> | <del>2A</del> | <del>2A</del> | <del>2A</del> | <del>38</del> |
|                     | <del>38</del> | <del>38</del> | <del>38</del> | <del>38</del> | <del>38</del> | <del>38</del> | <del>38</del> | <del>38</del> | <del>38</del> | <del>23</del> | <del>23</del> | <del>23</del> |
|                     | <del>2A</del> | <del>2A</del> | <del>2A</del> | <del>39</del> | <del>39</del> | <del>39</del> | <del>39</del> | <del>39</del> | <del>39</del> | <del>39</del> | <del>39</del> | <del>39</del> |
|                     | <del>39</del> | <del>23</del> | <del>23</del> | <del>23</del> | <del>2A</del> | <del>2A</del> | <del>2A</del> | <del>30</del> | <del>30</del> | <del>30</del> | <del>30</del> | <del>30</del> |
|                     | <del>D0</del> | <del>1D</del> | <del>81</del> | <del>03</del> | <del>01</del> | <del>23</del> | <del>00</del> | <del>82</del> | <del>02</del> | <del>81</del> | <del>82</del> | <del>8D</del> |
|                     | <del>0A</del> | <del>04</del> | <del>3C</del> | <del>4E</del> | <del>4F</del> | <del>2D</del> | <del>49</del> | <del>43</del> | <del>4F</del> | <del>4E</del> | <del>3E</del> | <del>91</del> |
|                     | <del>02</del> | <del>00</del> | <del>0A</del> | <del>1E</del> | <del>02</del> | <del>00</del> | <del>01</del> | <del>30</del> | <del>30</del> | <del>30</del> | <del>30</del> | <del>30</del> |
|                     | <del>23</del> | <del>23</del> | <del>23</del> |               |               |               |               |               |               |               |               |               |

27.22.4.3.5.5 Test Requirement

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

## 27.22.4.3.6 GET INPUT (display of Icon)

## 27.22.4.3.6.1 Definition and applicability

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

## 27.22.4.3.6.2 Conformance Requirement

## 27.22.4.3.6.3 Test Purpose

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

## 27.22.4.3.6.4 Method of Test

## 27.22.4.3.6.4.1 Initial Conditions

## 27.22.4.3.6.4.2 See Annex C

## 27.22.4.3.6.4.3 Procedure

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

| Step | Direction | MESSAGE / Action                                                                                        | Comments                                                                                                                   |
|------|-----------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: GET INPUT 6.1.1                                                           |                                                                                                                            |
| 2    | ME → SIM  | FETCH                                                                                                   |                                                                                                                            |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>INPUT 6.1.1                                                                  | [BASIC-ICON self-explanatory for the Text<br>string]                                                                       |
| 4    | ME → USER | Display the BASIC-ICON for the<br>prompt<br>Or<br>Display the text string<br>"<NO-ICON>" for the prompt | Text string coding in unpacked format                                                                                      |
| 5    | USER → ME | Enter "+" and completion                                                                                |                                                                                                                            |
| 6    | ME → SIM  | TERMINAL RESPONSE : GET<br>INPUT 6.1.1A<br>Or<br>TERMINAL RESPONSE : GET<br>INPUT 6.1.1B                | Command performed successfully]<br><br>Or<br>[Command performed successfully but<br>requested icon could not be displayed] |

**PROACTIVE COMMAND : GET INPUT 6.1.1**

## Logically:

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

Device identities  
 Source device: SIM  
 Destination device: ME

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

Response length  
Minimum length: 0  
Maximum length: 10

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

## Coding:

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

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

**TERMINAL RESPONSE : GET INPUT 6.1.1A**

## Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully

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

## Coding:

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

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

**TERMINAL RESPONSE : GET INPUT 6.1.1B**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Text string

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

Coding:

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

BER-TLV: \_\_\_\_\_

\_\_\_\_\_ 81   03   01   23   00   82   02   82   81   83   01   04  
 \_\_\_\_\_ 8D   02   04   2B

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

| Step | Direction | MESSAGE / Action                                                                                                         | Comments                                                                                                                    |
|------|-----------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: GET INPUT 6.2.1                                                                            |                                                                                                                             |
| 2    | ME → SIM  | FETCH                                                                                                                    |                                                                                                                             |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>INPUT 6.2.1                                                                                   | [BASIC-ICON non self-explanatory for the<br>Text string]                                                                    |
| 4    | ME → USER | Display "<BASIC-ICON>" and<br>Display the BASIC-ICON for the<br>prompt<br>Or<br>Display "<BASIC-ICON>" for the<br>prompt | Text string coding in unpacked format                                                                                       |
| 5    | USER → ME | Enter the input "+" and<br>completion                                                                                    |                                                                                                                             |
| 6    | ME → SIM  | TERMINAL RESPONSE : GET<br>INPUT 6.2.1A<br>Or<br>TERMINAL RESPONSE : GET<br>INPUT 6.2.1B                                 | [Command performed successfully]<br><br>Or<br>[Command performed successfully but<br>requested icon could not be displayed] |

**PROACTIVE COMMAND : : GET INPUT 6.2.1**

## Logically:

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

Device identities  
 Source device: SIM  
 Destination device: ME

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

Response length  
Minimum length: 0  
Maximum length: 10

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

## Coding:

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

~~BER-TLV:~~

~~\_\_\_\_\_ D0 \_\_\_\_\_ 1C \_\_\_\_\_ 81 \_\_\_\_\_ 03 \_\_\_\_\_ 01 \_\_\_\_\_ 23 \_\_\_\_\_ 00 \_\_\_\_\_ 82 \_\_\_\_\_ 02 \_\_\_\_\_ 81 \_\_\_\_\_ 82 \_\_\_\_\_~~  
~~\_\_\_\_\_ 8D \_\_\_\_\_ 0D \_\_\_\_\_ 04 \_\_\_\_\_ 3C \_\_\_\_\_ 42 \_\_\_\_\_ 41 \_\_\_\_\_ 53 \_\_\_\_\_ 49 \_\_\_\_\_ 43 \_\_\_\_\_ 2D \_\_\_\_\_ 49 \_\_\_\_\_ 43 \_\_\_\_\_~~  
~~\_\_\_\_\_ 4F \_\_\_\_\_ 4E \_\_\_\_\_ 3E \_\_\_\_\_ 91 \_\_\_\_\_ 02 \_\_\_\_\_ 00 \_\_\_\_\_ 0A \_\_\_\_\_ 1E \_\_\_\_\_ 02 \_\_\_\_\_ 01 \_\_\_\_\_ 01 \_\_\_\_\_~~

**TERMINAL RESPONSE : GET INPUT 6.2.1A**

## Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully

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

## Coding:

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

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

**TERMINAL RESPONSE : GET INPUT 6.2.1B**

Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

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

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

Coding:

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

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

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

| Step | Direction | MESSAGE / Action                                                                   | Comments                                                                                                                 |
|------|-----------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>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<br>Or<br>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<br>Or<br>TERMINAL RESPONSE : GET INPUT 6.3.1B | [Command performed successfully]<br><br>Or<br>[Command performed successfully but requested icon could not be displayed] |

**PROACTIVE COMMAND : GET INPUT 6.3.1**

## Logically:

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

Device identities  
 Source device: SIM  
 Destination device: ME

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

Response length  
Minimum length: 0  
Maximum length: 10

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

## Coding:

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

BER-TLV: —

~~\_\_\_\_\_ D0   1D   81   03   01   23   00   82   02   81   82   8D~~  
~~\_\_\_\_\_ 0A   04   3C   4E   4F   2D   49   43   4F   4E   3E   91~~  
~~\_\_\_\_\_ 02   00   0A   1E   02   00   02~~

**TERMINAL RESPONSE : GET INPUT 6.3.1A**

## Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully

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

## Coding:

BER-TLV: —

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

~~\_\_\_\_\_ 81   03   01   22   00   82   02   82   81   83   01   00~~  
~~\_\_\_\_\_ 8D   02   04   2B~~

**TERMINAL RESPONSE : GET INPUT 6.3.1B**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Text string

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

Coding:

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

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

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

| Step | Direction | MESSAGE / Action                                                                                                   | Comments                                                                                                             |
|------|-----------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>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<br>Or<br>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<br>Or<br>TERMINAL RESPONSE : GET INPUT 6.4.1B                                 | [Command performed successfully]<br>Or<br>[Command performed successfully but requested icon could not be displayed] |

**PROACTIVE COMMAND : GET INPUT 6.4.1**



Logically:

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

Response length  
Minimum length: 0  
Maximum length: 10

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

Coding:

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

BER-TLV: \_\_\_\_\_

\_\_\_\_\_ ~~D0~~   ~~1D~~   ~~81~~   ~~03~~   ~~01~~   ~~23~~   ~~00~~   ~~82~~   ~~02~~   ~~81~~   ~~82~~   ~~8D~~  
 \_\_\_\_\_ ~~0A~~   ~~04~~   ~~3C~~   ~~4E~~   ~~4F~~   ~~2D~~   ~~49~~   ~~43~~   ~~4F~~   ~~4E~~   ~~3E~~   ~~91~~  
 \_\_\_\_\_ ~~02~~   ~~00~~   ~~0A~~   ~~1E~~   ~~02~~   ~~01~~   ~~02~~

**TERMINAL RESPONSE : GET INPUT 6.4.1A**

Logically:

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

Coding:

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

BER-TLV:

~~81~~    ~~03~~    ~~01~~    ~~22~~    ~~00~~    ~~82~~    ~~02~~    ~~82~~    ~~81~~    ~~83~~    ~~01~~    ~~00~~  
 \_\_\_\_\_ ~~8D~~   ~~02~~   ~~04~~   ~~2B~~

**TERMINAL RESPONSE : GET INPUT 6.4.1B**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Text string

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

Coding:

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

BER-TLV: \_\_\_\_\_

\_\_\_\_\_ 81 03 01 22 00 82 02 82 81 83 01 04  
 \_\_\_\_\_ 8D 02 04 2B

### 27.22.4.3.7 GET INPUT (Help Information)

#### 27.22.4.3.7.1 Definition and applicability

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

#### 27.22.4.3.7.2 Conformance Requirement

#### 27.22.4.3.7.3 Test Purpose

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

#### 27.22.4.3.7.4 Method of Test

##### 27.22.4.3.7.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

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

27.22.4.3.7.4.2 Procedure

Expected Sequence 7.1 (GET INPUT, digits only, ME to echo text, ME supporting 8 bit data Message, help information available)

| Step | Direction | MESSAGE / Action                              | Comments                                                                                                     |
|------|-----------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: GET INPUT 7.1.1 |                                                                                                              |
| 2    | ME → SIM  | FETCH                                         |                                                                                                              |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>INPUT 7.1.1        | [digits only, SMS default alphabet, ME to<br>echo text, packing not required, help<br>information available] |
| 4    | ME → USER | Display "Enter 12345"                         | Range of expected length is 5-5<br>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<br>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

~~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

~~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<br>PENDING: MORE TIME 1.1.1 |                                  |
| 2    | ME → SIM  | FETCH                                         |                                  |
| 3    | SIM → ME  | PROACTIVE COMMAND : MORE<br>TIME 1.1.1        |                                  |
| 4    | ME → SIM  | TERMINAL RESPONSE : MORE<br>TIME 1.1.1        | [Command performed successfully] |
| 5    | SIM → ME  | PROACTIVE SIM SESSION<br>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<br>PENDING: PLAY TONE 1.1.1                                                                                  |                                  |
| 2    | ME → SIM     | FETCH                                                                                                                          |                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND : PLAY<br>TONE 1.1.1                                                                                         |                                  |
| 4    | ME →<br>USER | Display "Dial Tone"<br><br>Play a standard supervisory dial<br>tone through the external ringer for<br>a duration of 5 seconds |                                  |
| 5    | ME → SIM     | TERMINAL RESPONSE : PLAY<br>TONE 1.1.1                                                                                         | [Command performed successfully] |
| 6    | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                                                 |                                  |
| ...  |              |                                                                                                                                |                                  |
| 7    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.2                                                                                  |                                  |
| 8    | ME → SIM     | FETCH                                                                                                                          |                                  |
| 9    | SIM → ME     | PROACTIVE COMMAND : PLAY<br>TONE 1.1.2                                                                                         |                                  |
| 10   | ME →<br>USER | Display "Sub. Busy"<br><br>Play a standard supervisory called<br>subscriber busy tone for a duration<br>of 5 seconds           |                                  |
| 11   | ME → SIM     | TERMINAL RESPONSE : PLAY<br>TONE 1.1.2                                                                                         | [Command performed successfully] |
| 12   | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                                                 |                                  |
| ...  |              |                                                                                                                                |                                  |
| 13   | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.3                                                                                  |                                  |
| 14   | ME → SIM     | FETCH                                                                                                                          |                                  |
| 15   | SIM → ME     | PROACTIVE COMMAND : PLAY<br>TONE 1.1.3                                                                                         |                                  |
| 16   | ME →<br>USER | Display "Congestion"<br><br>Play a standard supervisory<br>congestion tone for a duration of 5<br>seconds                      |                                  |
| 17   | ME → SIM     | TERMINAL RESPONSE : PLAY<br>TONE 1.1.3                                                                                         | [Command performed successfully] |
| 18   | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                                                 |                                  |
| ...  |              |                                                                                                                                |                                  |
| 19   | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.4                                                                                  |                                  |
| 20   | ME → SIM     | FETCH                                                                                                                          |                                  |
| 21   | SIM → ME     | PROACTIVE COMMAND : PLAY<br>TONE 1.1.4                                                                                         |                                  |
| 22   | ME →<br>USER | Display "RP Ack"<br><br>Play a standard supervisory radio<br>path acknowledgement tone                                         |                                  |
| 23   | ME → SIM     | TERMINAL RESPONSE : PLAY<br>TONE 1.1.4                                                                                         | [Command performed successfully] |
| 24   | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                                                 |                                  |

|    |              |                                                                                                            |                                                               |
|----|--------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 25 | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.5                                                              |                                                               |
| 26 | ME → SIM     | FETCH                                                                                                      |                                                               |
| 27 | SIM → ME     | PROACTIVE COMMAND : PLAY<br>TONE 1.1.5                                                                     |                                                               |
| 28 | ME →<br>USER | Display "No RP"                                                                                            |                                                               |
|    |              | Play a standard supervisory radio<br>path not available / call dropped<br>tone for a duration of 5 seconds |                                                               |
| 29 | ME → SIM     | TERMINAL RESPONSE : PLAY<br>TONE 1.1.5                                                                     | [Command performed successfully]                              |
| 30 | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                             |                                                               |
| 31 | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.6                                                              |                                                               |
| 32 | ME → SIM     | FETCH                                                                                                      |                                                               |
| 33 | SIM → ME     | PROACTIVE COMMAND : PLAY<br>TONE 1.1.6                                                                     |                                                               |
| 34 | ME →<br>USER | Display "Spec Info"                                                                                        |                                                               |
|    |              | Play a standard supervisory error /<br>special information tone for a<br>duration of 5 seconds             |                                                               |
| 35 | ME → SIM     | TERMINAL RESPONSE : PLAY<br>TONE 1.1.6                                                                     | [Command performed successfully]                              |
| 36 | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                             |                                                               |
| 37 | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.7                                                              |                                                               |
| 38 | ME → SIM     | FETCH                                                                                                      |                                                               |
| 39 | SIM → ME     | PROACTIVE COMMAND : PLAY<br>TONE 1.1.7                                                                     |                                                               |
| 40 | ME →<br>USER | Display "Call Wait"                                                                                        |                                                               |
|    |              | Play a standard supervisory call<br>waiting tone for a duration of 5<br>seconds                            |                                                               |
| 41 | ME → SIM     | TERMINAL RESPONSE : PLAY<br>TONE 1.1.7                                                                     | [Command performed successfully]                              |
| 42 | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                             |                                                               |
| 43 | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.8                                                              |                                                               |
| 44 | ME → SIM     | FETCH                                                                                                      |                                                               |
| 45 | SIM → ME     | PROACTIVE COMMAND : PLAY<br>TONE 1.1.8                                                                     |                                                               |
| 46 | ME →<br>USER | Display "Ring Tone"                                                                                        |                                                               |
|    |              | Play a standard supervisory<br>ringing tone for duration of 5<br>seconds                                   |                                                               |
| 47 | ME → SIM     | TERMINAL RESPONSE : PLAY<br>TONE 1.1.8                                                                     | [Command performed successfully]                              |
| 48 | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                             |                                                               |
| 49 | USER →<br>ME | Set up a voice call                                                                                        | [ User dials 123456789 to connect to the<br>network manually] |



|    |                 |                                                                                                                                                                                                                                                                                  |                                    |
|----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 50 | ME →<br>Network | Establish voice call                                                                                                                                                                                                                                                             | [Voice call is established]        |
| 51 | SIM → ME        | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.9                                                                                                                                                                                                                                    |                                    |
| 52 | ME → SIM        | FETCH                                                                                                                                                                                                                                                                            |                                    |
| 53 | SIM → ME        | PROACTIVE COMMAND : PLAY<br>TONE 1.1.9                                                                                                                                                                                                                                           |                                    |
| 54 | ME →<br>USER    | Display "Dial Tone"                                                                                                                                                                                                                                                              |                                    |
|    |                 | Superimpose the standard<br>supervisory dial tone on the audio<br>downlink for the duration of 5<br>seconds                                                                                                                                                                      |                                    |
| 55 | ME → SIM        | TERMINAL RESPONSE : PLAY<br>TONE 1.1.9                                                                                                                                                                                                                                           | [Command performed successfully]   |
| 56 | SIM → ME        | PROACTIVE SIM SESSION<br>ENDED                                                                                                                                                                                                                                                   |                                    |
| 57 | SIM → ME        | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.10                                                                                                                                                                                                                                   |                                    |
| 58 | ME → SIM        | FETCH                                                                                                                                                                                                                                                                            |                                    |
| 59 | SIM → ME        | PROACTIVE COMMAND : PLAY<br>TONE 1.1.10                                                                                                                                                                                                                                          |                                    |
| 60 | ME →<br>USER    | Display "This command instructs<br>the ME to play an audio tone.<br>Upon receiving this command, the<br>ME shall check if it is currently in,<br>or in the process of setting up<br>(SET-UP message sent to the<br>network, see GSM"04.08"(8)), a<br>speech call. - If the ME I" |                                    |
| 61 | ME → SIM        | Play a general beep<br>TERMINAL RESPONSE : PLAY<br>TONE 1.1.10a                                                                                                                                                                                                                  | [Command performed successfully]   |
|    |                 | or                                                                                                                                                                                                                                                                               | or                                 |
|    |                 | TERMINAL RESPONSE : PLAY<br>TONE 1.1.10b                                                                                                                                                                                                                                         | [Command beyond ME's capabilities] |
| 62 | SIM → ME        | PROACTIVE SIM SESSION<br>ENDED                                                                                                                                                                                                                                                   |                                    |
| 63 | SIM → ME        | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.11                                                                                                                                                                                                                                   |                                    |
| 64 | ME → SIM        | FETCH                                                                                                                                                                                                                                                                            |                                    |
| 65 | SIM → ME        | PROACTIVE COMMAND : PLAY<br>TONE 1.1.11                                                                                                                                                                                                                                          |                                    |
| 66 | ME →<br>USER    | Display "Beep"                                                                                                                                                                                                                                                                   |                                    |
|    |                 | Play a ME proprietary general<br>beep                                                                                                                                                                                                                                            |                                    |
| 67 | ME → SIM        | TERMINAL RESPONSE : PLAY<br>TONE 1.1.11a                                                                                                                                                                                                                                         | [Command performed successfully]   |
|    |                 | Or                                                                                                                                                                                                                                                                               | or                                 |
|    |                 | TERMINAL RESPONSE : PLAY<br>TONE 1.1.11b                                                                                                                                                                                                                                         | [Command beyond ME's capabilities] |
| 68 | SIM → ME        | PROACTIVE SIM SESSION<br>ENDED                                                                                                                                                                                                                                                   |                                    |

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

|    |              |                                                                                                                       |                                                                                                                                                                                                   |
|----|--------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 87 | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.15                                                                        |                                                                                                                                                                                                   |
| 88 | ME → SIM     | FETCH                                                                                                                 |                                                                                                                                                                                                   |
| 89 | SIM → ME     | PROACTIVE COMMAND : PLAY<br>TONE 1.1.15                                                                               |                                                                                                                                                                                                   |
| 90 | ME →<br>USER | Display "<ABORT>"<br><br>Play a ME Error / Special<br>information tone for 1 minute until<br>user aborts this command |                                                                                                                                                                                                   |
| 91 | ME → SIM     | TERMINAL RESPONSE : PLAY<br>TONE 1.1.15                                                                               | [Proactive SIM session terminated by the<br>user]                                                                                                                                                 |
| 92 | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                                        |                                                                                                                                                                                                   |
| 93 | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.16                                                                        |                                                                                                                                                                                                   |
| 94 | ME → SIM     | FETCH                                                                                                                 |                                                                                                                                                                                                   |
| 95 | SIM → ME     | PROACTIVE COMMAND : PLAY<br>TONE 1.1.16                                                                               | [No alpha identifier, no tone tag, no duration<br>tag]                                                                                                                                            |
| 96 | ME →<br>User | ME plays general beep, or if not<br>supported any (defined by ME-<br>manufacturer) other supported<br>tone            | [ME uses default duration defined by ME-<br>manufacturer]                                                                                                                                         |
| 97 | ME → SIM     | TERMINAL RESPONSE : PLAY<br>TONE 1.1.16                                                                               | [Command performed successfully], [ME<br>uses general beep, or if not supported any<br>(defined by ME-manufacturer) other<br>supported tone, uses default duration defined<br>by ME-manufacturer] |
| 98 | SIM → ME     | PROACTIVE SIM SESSION<br>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<br>PENDING: POLL INTERVAL 1.1.1 |                                  |
| 2    | ME → SIM  | FETCH                                             |                                  |
| 3    | SIM → ME  | PROACTIVE COMMAND : POLL<br>INTERVAL 1.1.1        | [Duration: 20 seconds]           |
| 4    | ME → SIM  | TERMINAL RESPONSE : POLL<br>INTERVAL 1.1.1        | [Command performed successfully] |
| 5    | ME        | ME polls in intervals of 20<br>seconds            |                                  |

**PROACTIVE COMMAND : POLL INTERVAL 1.1.1**

Logically:

Command details

Command number: 1  
Command type: POLL INTERVAL  
Command qualifier: "00"

Device identities

Source device: SIM  
Destination device: ME

Duration

Time unit: Seconds  
Time interval: 20

Coding:

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

**TERMINAL RESPONSE : POLL INTERVAL 1.1.1**

Logically:

Command details

Command number: 1  
Command type: POLL INTERVAL  
Command qualifier: "00"

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command performed successfully

Duration

Time unit: Seconds  
Time interval: 20

Coding:

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

#### 27.22.4.6.5 Test Requirement

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

### 27.22.4.7 REFRESH

#### 27.22.4.7.1 REFRESH (normal)

##### 27.22.4.7.1.1 Definition and applicability

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

##### 27.22.4.7.1.2 Conformance requirement

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

TS GSM 11.14 [15] clause 6.4.7.

##### 27.22.4.7.1.3 Test Purpose

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

##### 27.22.4.7.1.4 Method of test

###### 27.22.4.7.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

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

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

**EF<sub>F</sub>DN (Fixed Dialling Numbers)**

Logically:

At least 10 records

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

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

Record 2:  
 Length of alpha identifier: 32 characters  
 Alpha identifier: "DEF"  
 Length of BCD number: "04"  
 TON and NPI: Telephony and Unknown  
 Dialed number: 9876  
 CCI: None  
 Ext2: None

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

27.22.4.7.1.4.2 Procedure

Expected Sequence 1.1 (REFRESH, SIM Initialisation)

| Step | Direction    | MESSAGE / Action                                                                   | Comments                                 |
|------|--------------|------------------------------------------------------------------------------------|------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: REFRESH 1.1.1                                        |                                          |
| 2    | ME → SIM     | FETCH                                                                              |                                          |
| 3    | SIM → ME     | PROACTIVE COMMAND:<br>REFRESH 1.1.1                                                |                                          |
| 4    | SIM          | Invalidate EF IMSI, EF LOCI and<br>EF ADN                                          | [Restricted dialling feature is enabled] |
| 5    | ME → SIM     | SIM Initialisation                                                                 | [ME performs SIM initialisation]         |
| 6    | ME → SIM     | TERMINAL RESPONSE:<br>REFRESH 1.1.1A<br>Or<br>TERMINAL RESPONSE:<br>REFRESH 1.1.1B |                                          |
| 7    | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                     |                                          |
| 8    | USER →<br>ME | Call setup to "321"                                                                |                                          |
| 9    | ME →<br>USER | Call set up not allowed                                                            |                                          |
| 10   | USER →<br>ME | Call setup to "123"                                                                |                                          |
| 11   | ME → SS      | CALL SET UP REQUEST 1.1.1                                                          |                                          |

**PROACTIVE COMMAND : REFRESH 1.1.1**

Logically:

Command details  
 Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialisation  
 Device identities  
 Source device: SIM  
 Destination device: ME

Coding:

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

**TERMINAL RESPONSE : REFRESH 1.1.1A**

Logically:

Command details  
 Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialisation  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

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

**TERMINAL RESPONSE : REFRESH 1.1.1B**

Logically:

Command details  
 Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialisation  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: REFRESH performed with additional EFs read

Coding:

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



Expected Sequence 1.2 (REFRESH, File Change Notification)

| Step | Direction    | MESSAGE / Action                                                                   | Comments                                                                 |
|------|--------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: REFRESH 1.2.1                                        |                                                                          |
| 2    | ME → SIM     | FETCH                                                                              |                                                                          |
| 3    | SIM → ME     | PROACTIVE COMMAND:<br>REFRESH 1.2.1                                                |                                                                          |
| 4    | SIM          | Invalidate EF IMSI, EF LOCI and<br>EF ADN                                          | [Restricted dialling feature is enabled]                                 |
| 5    | SIM          | Update EF FDN RECORD 1                                                             | [EF FDN record 1 updated to contain the<br>dialling string "0123456789"] |
| 6    | ME → SIM     | READ RECORD: EF FDN                                                                |                                                                          |
| 7    | ME → SIM     | TERMINAL RESPONSE:<br>REFRESH 1.2.1A<br>Or<br>TERMINAL RESPONSE:<br>REFRESH 1.2.1B | [normal ending]<br><br>[additional EFs read]                             |
| 8    | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                     |                                                                          |
| 9    | USER →<br>ME | Call setup to "123"                                                                |                                                                          |
| 10   | ME →<br>USER | Call set up not allowed                                                            |                                                                          |
| 11   | USER →<br>ME | Call setup to "0123456789"                                                         |                                                                          |
| 12   | ME → SS      | CALL SET UP REQUEST 1.2.1                                                          |                                                                          |

**PROACTIVE COMMAND : REFRESH 1.2.1**

Logically:

Command details  
 Command number: 1  
 Command type: REFRESH  
 Command qualifier: File Change Notification  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 File List: EF FDN

Coding:

BER-TLV: D0 12 81 03 01 01 01 82 02 81 82 92  
 07 01 3F 00 7F 10 6F 3B

**TERMINAL RESPONSE : REFRESH 1.2.1A**

Logically:

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

Coding:

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

**TERMINAL RESPONSE : REFRESH 1.2.1B**

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: File Change Notification

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: REFRESH performed with additional EFs read

Coding:

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

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

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

**PROACTIVE COMMAND : REFRESH 1.3.1**

## Logically:

Command details  
 Command number: 1  
 Command type: REFRESH  
 Command qualifier: SIM Initialisation and File Change Notification  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 File List: EF PLMN

## Coding:

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

**TERMINAL RESPONSE : REFRESH 1.3.1A**

## Logically:

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

## Coding:

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

**TERMINAL RESPONSE : REFRESH 1.3.1B**

## Logically:

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

## Coding:

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

Expected Sequence 1.4 (REFRESH, SIM Initialisation and Full File Change Notification)

| Step | Direction | MESSAGE / Action                            | Comments                                                                 |
|------|-----------|---------------------------------------------|--------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: REFRESH 1.4.1 |                                                                          |
| 2    | ME → SIM  | FETCH                                       |                                                                          |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>REFRESH 1.4.1         |                                                                          |
| 4    | SIM       | Invalidate EF IMSI, EF LOCI and<br>EF ADN   | [Restricted dialling feature is enabled]                                 |
| 5    | SIM       | Update EF FDN                               | [EF FDN record 1 updated to contain the<br>dialling string "0123456789"] |
| 6    | ME → SIM  | SIM Initialisation                          | [ME performs SIM initialisation]                                         |
| 7    | ME → SIM  | TERMINAL RESPONSE:<br>REFRESH 1.4.1A        |                                                                          |
| 8    | SIM → ME  | PROACTIVE SIM SESSION<br>ENDED              |                                                                          |
| 9    | USER → ME | Call setup to "321"                         |                                                                          |
| 10   | ME → USER | Call set up not allowed                     |                                                                          |
| 11   | USER → ME | Call setup to "0123456789"                  |                                                                          |
| 12   | ME → SS   | CALL SET UP REQUEST 1.4.1                   |                                                                          |

**PROACTIVE COMMAND : REFRESH 1.4.1A**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Coding:

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

**TERMINAL RESPONSE : REFRESH 1.4.1A**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 1.5 (REFRESH, SIM Reset)

| Step | Direction | MESSAGE / Action                            | Comments               |
|------|-----------|---------------------------------------------|------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: REFRESH 1.5.1 |                        |
| 2    | ME → SIM  | FETCH                                       |                        |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>REFRESH 1.5.1         |                        |
| ...  |           |                                             |                        |
| 4    | ME → SIM  | GSM Termination Procedure                   |                        |
| ...  |           |                                             |                        |
| 5    | ME → SIM  | GSM Activation Procedure                    | [At same voltage]      |
| ...  |           |                                             |                        |
| 6    | ME → SIM  | SIM Initialisation                          |                        |
| ...  |           |                                             |                        |
| 7    | ME → SIM  |                                             | [NO TERMINAL RESPONSE] |

**PROACTIVE COMMAND : REFRESH 1.5.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Coding:

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

**27.22.4.7.1.5 Test Requirement**

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

**27.22.4.7.2 REFRESH (IMSI changing procedure)**

**27.22.4.7.2.1 Definition and applicability**

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

**27.22.4.7.2.2 Conformance requirement**

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

TS GSM 11.11 [] clause 12.2.1

**27.22.4.7.2.3 Test Purpose**

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

27.22.4.7.2.4 Method of test

27.22.4.7.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

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

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

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

27.22.4.7.2.4.2 Procedure

Expected Sequence 2.1 (REFRESH, SIM Initialisation and File Change Notification)

| Step | Direction | MESSAGE / Action                                                                   | Comments                                                                                             |
|------|-----------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: REFRESH 2.1.1                                        |                                                                                                      |
| 2    | ME → SIM  | FETCH                                                                              |                                                                                                      |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>REFRESH 2.1.1                                                |                                                                                                      |
| 4    | SIM       | Update EF IMSI, EF LOCI and EF KC                                                  | [Update the contents of EF IMSI to "001010123456789", EF LOCI to not updated and EF KC to not valid] |
| ...  |           |                                                                                    |                                                                                                      |
| 5    | ME        | Invoke MM Restart Procedure                                                        |                                                                                                      |
| ...  |           |                                                                                    |                                                                                                      |
| 6    | ME → SIM  | SIM INITIALISATION                                                                 | [ME performs SIM initialisation; including reading EF IMSI, EF LOCI and EF KC]                       |
| ...  |           |                                                                                    |                                                                                                      |
| 7    | ME → SIM  | TERMINAL RESPONSE:<br>REFRESH 2.1.1A<br>Or<br>TERMINAL RESPONSE:<br>REFRESH 2.1.1B | [normal]<br><br>[additional EFs read]                                                                |
| 8    | SIM → ME  | PROACTIVE SIM SESSION ENDED                                                        |                                                                                                      |
| ...  |           |                                                                                    |                                                                                                      |
| 9    | ME → SS   | IMSI ATTATCH                                                                       | [Send IMSI of "001010123456789" to System Simulator]                                                 |

### PROACTIVE COMMAND : REFRESH 2.1.1

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

File List

File 1: EF IMSI  
 File 2: EF LOCI  
 File 3: EF KC

Coding:

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

**TERMINAL RESPONSE : REFRESH 2.1.1A**

Logically:

Command details

Command number: 1

Command type: REFRESH

Command qualifier: SIM Initialisation and File Change Notification

Device identities

Source device: ME

Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

**TERMINAL RESPONSE : REFRESH 2.1.1B**

Logically:

Command details

Command number: 1

Command type: REFRESH

Command qualifier: SIM Initialisation and File Change Notification

Device identities

Source device: ME

Destination device: SIM

Result

General Result: REFRESH performed with additional EFs read

Coding:

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

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

| Step | Direction | MESSAGE / Action                            | Comments                                                                                                   |
|------|-----------|---------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: REFRESH 2.2.1 |                                                                                                            |
| 2    | ME → SIM  | FETCH                                       |                                                                                                            |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>REFRESH 2.2.1         |                                                                                                            |
| 4    | SIM       | Update EF IMSI, EF LOCI and EF<br>KC        | [Update the contents of EF IMSI to<br>"001010123456789", EF LOCI to not updated<br>and EF KC to not valid] |
| 5    | ME        | Invoke MM Restart Procedure                 |                                                                                                            |
| 6    | ME → SIM  | SIM INITIALISATION                          | [ME performs SIM initialisation; including<br>reading EF IMSI, EF LOCI and EF KC]                          |
| 7    | ME → SIM  | TERMINAL RESPONSE:<br>REFRESH 2.2.1         | [normal]                                                                                                   |
| 8    | SIM → ME  | PROACTIVE SIM SESSION<br>ENDED              |                                                                                                            |
| 9    | ME → SS   | IMSI ATTATCH                                | [Send IMSI of "001010123456789" to System<br>Simulator]                                                    |

**PROACTIVE COMMAND : REFRESH 2.2.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Coding:

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

**TERMINAL RESPONSE : REFRESH 2.2.1**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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



Expected Sequence 2.3 (REFRESH, SIM Reset)

| Step | Direction | MESSAGE / Action                            | Comments                                                                                             |                                                                                |
|------|-----------|---------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: REFRESH 2.3.1 | [Update the contents of EF IMSI to "001010123456789", EF LOCI to not updated and EF KC to not valid] |                                                                                |
| 2    | ME → SIM  | FETCH                                       |                                                                                                      |                                                                                |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>REFRESH 2.3.1         |                                                                                                      |                                                                                |
| 4    | SIM       | Update EF IMSI, EF LOCI and EF KC           |                                                                                                      |                                                                                |
| 5    | ME → SIM  | GSM Termination Procedure                   |                                                                                                      |                                                                                |
| 6    | ME → SIM  | GSM Activation Procedure                    |                                                                                                      | [At same voltage]                                                              |
| 7    | ME → SIM  | SIM Initialisation                          |                                                                                                      | [ME performs SIM initialisation; including reading EF IMSI, EF LOCI and EF KC] |
| 8    | ME → SS   | IMSI ATTATCH                                |                                                                                                      | [Send IMSI of "001010123456789" to System Simulator]                           |

**PROACTIVE COMMAND : REFRESH 2.3.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Coding:

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

27.22.4.7.2.5 Test Requirement

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

27.22.4.8 SET UP MENU and ENVELOPE MENU SELECTION

27.22.4.8.1 SET UP MENU and ENVELOPE MENU SELECTION (normal)

27.22.4.8.1.1 Definition and applicability

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

The SET UP MENU proactive SIM command shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items. Each item comprises a short identifier (used to indicate the selection) and a text string. The included alpha identifier acts as a title for the list of menu items.

27.22.4.8.1.2 Conformance Requirement

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

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

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

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

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

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

#### 27.22.4.8.1.3 Test Purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive SIM command, and returns a successful response in the TERMINAL RESPONSE command sent to the SIM.

To verify that the ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME correctly passes the identifier of the selected menu item to the SIM using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user has indicated the need to get help information on one of the items, the ME informs properly the SIM about an HELP REQUEST, using the MENU SELECTION mechanism.

#### 27.22.4.8.1.4 Method of Test

##### 27.22.4.8.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

## 27.22.4.8.1.4.2 Procedure

Expected Sequence 1.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu)

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

|    |           |                                             |  |
|----|-----------|---------------------------------------------|--|
| 26 | SIM → ME  | PROACTIVE SIM SESSION ENDED                 |  |
| 27 | USER → ME | Has to unsuccessfully find the Toolkit Menu |  |

**PROACTIVE-SIM: COMMAND: SET UP MENU 1.1.1**

Logically:

```

Command details
  Command number:      1
  Command type:       SET UP MENU
  Command qualifier:   "00"
Device identities
  Source device:      SIM
  Destination device: ME
Alpha identifier:     "Toolkit Menu"
Item
  Identifier of item:  1
  Text string of item: "Item 1"
Item
  Identifier of item:  2
  Text string of item: "Item 2"
Item
  Identifier of item:  3
  Text string of item: "Item 3"
Item
  Identifier of item:  4
  Text string of item: "Item 4"
    
```

Coding:

```

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

**PROACTIVE-SIM: COMMAND : SET UP MENU 1.1.2**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Toolkit Menu"  
 Item  
 Identifier of item: "11"  
 Text string of item: "One"  
 Item  
 Identifier of item: "12"  
 Text string of item: "Two"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 23 | 81 | 03 | 01 | 25 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 0C | 54 | 6F | 6F | 6C | 6B | 69 | 74 | 20 | 4D | 65 | 6E |
|          | 75 | 8F | 04 | 11 | 4F | 6E | 65 | 8F | 04 | 12 | 54 | 77 |
|          | 6F |    |    |    |    |    |    |    |    |    |    |    |

**PROACTIVE-SIM: COMMAND : SET UP MENU 1.1.3**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Item: Empty

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0D | 81 | 03 | 01 | 25 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 00 | 8F | 00 |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SET UP MENU 1.1.1, 1.1.2 and 1.1.3**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "no help information available"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 25 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**ENVELOPE 1.1.1 : MENU SELECTION**

Logically:

Menu selection  
Device identities  
  Source device:           Keypad  
  Destination device:     SIM  
Item identifier            02

Coding:

BER-TLV:  D3    07    81    02    01    81    90    01    02

**ENVELOPE 1.2 : MENU SELECTION**

Logically:

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

Coding:

BER-TLV:  D3    07    81    02    01    81    90    01    12

## Expected Sequence 1.2 (SET UP MENU, Large Menu with many items or with large items or with Large Alpha Identifier)

|    |              |                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |
|----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1  | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP MENU 1.2.1                                                                                                                                                                                                                                                                                                                                         | [First Large Menu with many items, Fetch of FF bytes]   |
| 2  | ME → SIM     | FETCH                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |
| 3  | SIM → ME     | PROACTIVE COMMAND SET UP<br>MENU 1.2.1                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| 4  | ME →<br>USER | Integrate the new menu header of "LargeMenu1" into its menu system and have the menu items of "Zero", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine", "Alpha", "Bravo", "Charlie", "Delta", "Echo", "Fox-trot", "Black", "Brown", "Red", "Orange", "Yellow", "Green", "Blue", "Violet", "Grey", "White", "milli", "micro", "nano" and "pico" under this header. |                                                         |
| 5  | ME → SIM     | TERMINAL RESPONSE: SET UP<br>MENU 1.2.1                                                                                                                                                                                                                                                                                                                                                 | [Command Performed Successfully]                        |
| 6  | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                                                                                                                                                                                                                                                                                                          |                                                         |
| 7  | USER →<br>ME | Select the Toolkit<br>"LargeMenu1"                                                                                                                                                                                                                                                                                                                                                      |                                                         |
| 8  | ME →<br>USER | Display "Zero", "One", "Two" ...<br>"pico"                                                                                                                                                                                                                                                                                                                                              |                                                         |
| 9  | USER →<br>ME | Select the "Orange" menu<br>entry                                                                                                                                                                                                                                                                                                                                                       |                                                         |
| 10 | ME →<br>SIM  | Send the ENVELOPE 1.2.1 :<br>MENU SELECTION<br>(Identifier of item: 0x3D)                                                                                                                                                                                                                                                                                                               |                                                         |
| 11 | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP MENU 1.2.2                                                                                                                                                                                                                                                                                                                                         | [Second Large Menu with large items, Fetch of F6 bytes] |
| 12 | ME → SIM     | FETCH                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |
| 13 | SIM → ME     | PROACTIVE COMMAND SET UP<br>MENU 1.2.2                                                                                                                                                                                                                                                                                                                                                  |                                                         |
| 14 | ME →<br>USER | Integrate the new menu header of "LargeMenu2" into its menu system and have the menu items of "1 Call Forward Unconditional", "2 Call Forward On User Busy", "3 Call Forward On No Reply", "4 Call Forward On User Not Reachable", "5 Barring Of All Outgoing Calls", "6 Barring Of All Outgoing Int Calls" and "7 CLI Presentation" under this header.                                 |                                                         |
| 15 | ME → SIM     | TERMINAL RESPONSE: SET UP<br>MENU 1.2.2                                                                                                                                                                                                                                                                                                                                                 | [Command Performed Successfully]                        |
| 16 | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                                                                                                                                                                                                                                                                                                          |                                                         |
| 17 | USER →<br>ME | Select the Toolkit Menu<br>"LargeMenu2"                                                                                                                                                                                                                                                                                                                                                 |                                                         |
| 18 | ME →<br>USER | Display "1 Call Forward<br>Unconditional", "2 Call Forward<br>On User Busy", "3 Call<br>Forward On No Reply", "4 Call<br>Forward On User Not<br>Reachable", "5 Barring Of All<br>Outgoing Calls", "6 Barring Of<br>All Outgoing Int Calls", "7 CLI<br>Presentation"                                                                                                                     |                                                         |

|    |                 |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                   |
|----|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 19 | USER →<br>ME    | Select the "5 Barring Of All<br>Outgoing Calls" menu entry                                                                                                                                                                                                                                                                                                                          |                                                                                                   |
| 20 | ME →<br>SIM     | Send the ENVELOPE 1.2.2 :<br>MENU SELECTION<br>(Identifier of item: 0xFB)                                                                                                                                                                                                                                                                                                           |                                                                                                   |
| 21 | SIM → ME        | PROACTIVE COMMAND<br>PENDING: SET UP MENU 1.2.3                                                                                                                                                                                                                                                                                                                                     | [Third Large Menu with a Large Alpha<br>Identifier and only one Short Item, Fetch of<br>FF bytes] |
| 22 | ME → SIM        | FETCH                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                   |
| 23 | SIM → ME        | PROACTIVE COMMAND SET UP<br>MENU 1.2.3                                                                                                                                                                                                                                                                                                                                              |                                                                                                   |
| 24 | ME →<br>USER    | Integrate the new menu header of<br>" The SIM shall supply a set of<br>menu items, which shall be<br>integrated with the menu system<br>(or other MMI facility) in order to<br>give the user the opportunity to<br>choose one of these menu items<br>at his own discretion. Each item<br>comprises a sh" into it's menu<br>system and have a menu item of<br>"Y" under this header. |                                                                                                   |
| 25 | ME → SIM        | TERMINAL RESPONSE: SET UP<br>MENU 1.2.3                                                                                                                                                                                                                                                                                                                                             | [Command Performed Successfully]                                                                  |
| 26 | SIM → ME        | PROACTIVE SIM SESSION<br>ENDED                                                                                                                                                                                                                                                                                                                                                      |                                                                                                   |
| 5  | USER<br>→<br>ME | Select the Toolkit Menu "The<br>SIM shall supply a set of menu<br>items, which shall be<br>integrated with the menu<br>system (or other MMI facility) in<br>order to give the user the<br>opportunity to choose one of<br>these menu items at his own<br>discretion. Each item<br>comprises a sh".                                                                                  |                                                                                                   |
| 6  | ME →<br>USER    | Display "Y"                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                   |
| 7  | USER<br>→ ME    | Select the item "Y"                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                   |
| 8  | ME →<br>SI<br>M | Send the ENVELOPE 1.1.6 :<br>MENU SELECTION<br>(Identifier of item: 1)                                                                                                                                                                                                                                                                                                              |                                                                                                   |



**PROACTIVE ~~SIM~~: COMMAND: SET UP MENU 1.2.1**

Logically:

|                      |              |
|----------------------|--------------|
| Command details      |              |
| Command number:      | 1            |
| Command type:        | SET UP MENU  |
| Command qualifier:   | "00"         |
| Device identities    |              |
| Source device:       | SIM          |
| Destination device:  | ME           |
| Alpha Identifier:    | "LargeMenu1" |
| Item                 |              |
| Identifier of item:  | "50"         |
| Text string of item: | "Zero"       |
| Item                 |              |
| Identifier of item:  | "4F"         |
| Text string of item: | "One"        |
| Item                 |              |
| Identifier of item:  | "4E"         |
| Text string of item: | "Two"        |
| Item                 |              |
| Identifier of item:  | "4D"         |
| Text string of item: | "Three"      |
| Item                 |              |
| Identifier of item:  | "4C"         |
| Text string of item: | "Four"       |
| Item                 |              |
| Identifier of item:  | "4B"         |
| Text string of item: | "Five"       |
| Item                 |              |
| Identifier of item:  | "4A"         |
| Text string of item: | "Six"        |
| Item                 |              |
| Identifier of item:  | "49"         |
| Text string of item: | "Seven"      |
| Item                 |              |
| Identifier of item:  | "48"         |
| Text string of item: | "Eight"      |
| Item                 |              |
| Identifier of item:  | "47"         |
| Text string of item: | "Nine"       |

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

## Coding:

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

**PROACTIVE SIM: COMMAND : SET UP MENU 1.2.2**

Logically:

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

Device identities  
 Source device: SIM  
 Destination device: ME  
 Alpha Identifier: "LargeMenu2"

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

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

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

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

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

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

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

Coding:

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

**PROACTIVE SIM: COMMAND : SET UP MENU 1.2.3**

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME  
 Alpha Identifier: "The SIM shall supply a set of menu items, which shall be integrated with the menu system (or other MMI facility) in order to give the user the opportunity to choose one of these menu items at his own discretion. Each item comprises a sh"

## Item

Identifier of item: "01"  
 Text string of item: "Y"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | FC | 81 | 03 | 01 | 25 | 00 | 82 | 02 | 81 | 82 |
|          | 85 | 81 | EC | 54 | 68 | 65 | 20 | 53 | 49 | 4D | 20 | 73 |
|          | 68 | 61 | 6C | 6C | 20 | 73 | 75 | 70 | 70 | 6C | 79 | 20 |
|          | 61 | 20 | 73 | 65 | 74 | 20 | 6F | 66 | 20 | 6D | 65 | 6E |
|          | 75 | 20 | 69 | 74 | 65 | 6D | 73 | 2C | 20 | 77 | 68 | 69 |
|          | 63 | 68 | 20 | 73 | 68 | 61 | 6C | 6C | 20 | 62 | 65 | 20 |
|          | 69 | 6E | 74 | 65 | 67 | 72 | 61 | 74 | 65 | 64 | 20 | 77 |
|          | 69 | 74 | 68 | 20 | 74 | 68 | 65 | 20 | 6D | 65 | 6E | 75 |
|          | 20 | 73 | 79 | 73 | 74 | 65 | 6D | 20 | 28 | 6F | 72 | 20 |
|          | 6F | 74 | 68 | 65 | 72 | 20 | 4D | 4D | 49 | 20 | 66 | 61 |
|          | 63 | 69 | 6C | 69 | 74 | 79 | 29 | 20 | 69 | 6E | 20 | 6F |
|          | 72 | 64 | 65 | 72 | 20 | 74 | 6F | 20 | 67 | 69 | 76 | 65 |
|          | 20 | 74 | 68 | 65 | 20 | 75 | 73 | 65 | 72 | 20 | 74 | 68 |
|          | 65 | 20 | 6F | 70 | 70 | 6F | 72 | 74 | 75 | 6E | 69 | 74 |
|          | 79 | 20 | 74 | 6F | 20 | 63 | 68 | 6F | 6F | 73 | 65 | 20 |
|          | 6F | 6E | 65 | 20 | 6F | 66 | 20 | 74 | 68 | 65 | 73 | 65 |
|          | 20 | 6D | 65 | 6E | 75 | 20 | 69 | 74 | 65 | 6D | 73 | 20 |
|          | 61 | 74 | 20 | 68 | 69 | 73 | 20 | 6F | 77 | 6E | 20 | 64 |
|          | 69 | 73 | 63 | 72 | 65 | 74 | 69 | 6F | 6E | 2E | 20 | 45 |
|          | 61 | 63 | 68 | 20 | 69 | 74 | 65 | 6D | 20 | 63 | 6F | 6D |
|          | 70 | 72 | 69 | 73 | 65 | 73 | 20 | 61 | 20 | 73 | 68 | 8F |
|          | 02 | 01 | 59 |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SET UP MENU 1.2.1, 1.2.2 and 1.2.3**

Logically:

Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "no help information available"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 25 00 82 02 82 81 83 01 00

**ENVELOPE 1.2.1 : MENU SELECTION**

Logically:

Menu selection

Device identities

Source device: Keypad  
 Destination device: SIM

Item identifier 3D

Coding:

BER-TLV: D3 07 81 02 01 81 90 01 3D

**ENVELOPE 1.2.2 : MENU SELECTION**

Logically:

Menu selection

Device identities

Source device: Keypad  
 Destination device: SIM

Item identifier FB

Coding:

BER-TLV: D3 07 81 02 01 81 90 01 FB

**ENVELOPE 1.2.3 : MENU SELECTION**

Logically:

Menu selection

Device identities

Source device: Keypad

Destination device: SIM

Item identifier 01

Coding:

BER-TLV: D3 07 81 02 01 81 90 01 01

The following table details the test requirements with relation to the tested features:

| Proactive SIM Command Facilities |                         |                 |                        |
|----------------------------------|-------------------------|-----------------|------------------------|
| Proactive SIM Command Number     | Alpha Identifier Length | Number of items | Maximum length of item |
| 1.1.1                            | 12                      | 4               | 6                      |
| 1.1.2                            | 12                      | 2               | 3                      |
| 1.1.3                            | 10                      | 0               | -                      |
| 1.2.1                            | 10                      | 30              | 8                      |
| 1.2.2                            | 10                      | 7               | 37                     |
| 1.2.3                            | 235                     | 1               | 1                      |

#### 27.22.4.8.1.5 Test Requirement

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

#### 27.22.4.8.2 SET UP MENU (help request support)

##### 27.22.4.8.2.1 Definition and applicability

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

##### 27.22.4.8.2.2 Conformance Requirement

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

#### 27.22.4.8.2.3 Test Purpose

To verify that when the help is available for the command and the user has indicated the need to get help information on one of the items, the ME informs properly the SIM about an HELP REQUEST, using the MENU SELECTION mechanism.

#### 27.22.4.8.2.4 Method of Test

##### 27.22.4.8.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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



27.22.4.8.2.4.2 Procedure

Expected Sequence 2.1 (SET UP MENU and MENU SELECTION, with Help Request, Replace and Remove a Toolkit Menu)

| Step | Direction | MESSAGE / Action                                                                                                                                                                                | Comments                         |
|------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1    | SS → ME   | PROACTIVE COMMAND                                                                                                                                                                               | [First Set Up Menu]              |
| 2    | ME → SIM  | PENDING: SET UP MENU 2.1.1                                                                                                                                                                      |                                  |
| 3    | SIM → ME  | FETCH                                                                                                                                                                                           |                                  |
| 4    | ME → USER | PROACTIVE COMMAND SET UP MENU 2.1.1<br>Integrate the menu header of "Toolkit Menu" into its menu system and have the menu items of "Item 1", "Item 2", "Item 3" and "Item 4" under this header. | [Command Performed Successfully] |
| 5    | ME → SIM  | TERMINAL RESPONSE: SET UP MENU 2.1.1                                                                                                                                                            |                                  |
| 6    | SIM → ME  | PROACTIVE SIM SESSION ENDED                                                                                                                                                                     |                                  |
| 7    | USER → ME | Select the Toolkit Menu "Toolkit Menu"                                                                                                                                                          |                                  |
| 8    | USER → ME | Display "Item 1", "Item 2", "Item 3", "Item 4"                                                                                                                                                  |                                  |
| 9    | USER → ME | Select the Help Request on "Item 2" Menu entry                                                                                                                                                  |                                  |
| 10   | ME → SIM  | Send the ENVELOPE 2.1.1 : MENU SELECTION (Identifier of item: 2)                                                                                                                                |                                  |

**PROACTIVE SIM:COMMAND: SET UP MENU 2.1.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "80"

Device identities

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

Item

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

Item

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

Item

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

Item

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

Coding:

```

BER-TLV:  D0  3B  81  03  01  25  80  82  02  81  82  85
           0C  54  6F  6F  6C  6B  69  74  20  4D  65  6E
           75  8F  07  01  49  74  65  6D  20  31  8F  07
           02  49  74  65  6D  20  32  8F  07  03  49  74
    
```

65 6D 20 33 8F 07 04 49 74 65 6D 20  
34

### TERMINAL RESPONSE : SET UP MENU 2.1.1

Logically:

Command details

Command number: 1  
Command type: SET UP MENU  
Command qualifier: « help information available »

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 25 80 82 02 82 81 83 01 00

### ENVELOPE 2.1.1 : MENU SELECTION

Logically:

Menu selection

Device identities

Source device: Keypad  
Destination device: SIM

Item identifier 02

Help request tag

Coding:

BER-TLV: D3 09 81 02 01 81 90 01 02 15 00

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

##### 27.22.4.8.3.1 Definition and applicability

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

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

If the SIM provides an Items Next Action Indicator data object, the comprehension required flag shall be set to '0'.

##### 27.22.4.8.3.2 Conformance Requirement

Requirements are the same as in 27.22.4.8.1.1, with an additional one: GSM 11.14 clause 12.24 (Items Next Action Indicator).

#### 27.22.4.8.3.3 Test Purpose

To verify that when the next action indicator is supported.

#### 27.22.4.8.3.4 Method of Test

##### 27.22.4.8.3.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

##### 27.22.4.8.3.4.2 Procedure

Expected Sequence 3.1 (SET UP MENU, next action indicator “Send SM”, “Set Up Call”, “Launch Browser”, “Provide Local Information”, successful)

| Step | Direction    | MESSAGE / Action                                                                                                                                                     | Comments                         |
|------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1    | SS → ME      | PROACTIVE COMMAND<br>PENDING: SET UP MENU 3.1.1                                                                                                                      | [First Set Up Menu]              |
| 2    | ME → SIM     | FETCH                                                                                                                                                                |                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND SET UP<br>MENU 3.1.1                                                                                                                               |                                  |
| 4    | ME →<br>USER | Integrate the menu header of<br>"Toolkit Menu" into its menu<br>system and have the menu items<br>of "Item 1", "Item 2", "Item 3" and<br>"Item 4" under this header. |                                  |
| 5    | ME → SIM     | TERMINAL RESPONSE: SET UP<br>MENU 3.1.1                                                                                                                              | [Command Performed Successfully] |
| 6    | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                                                                                       |                                  |
| 7    | USER →<br>ME | Select the Toolkit Menu<br>"Toolkit Menu"                                                                                                                            |                                  |
| 8    | ME →<br>USER | Display "Item 1", "Item 2", "Item<br>3", "Item 4"                                                                                                                    |                                  |
| 9    | USER →<br>ME | Navigate in the items, then<br>select "Item 2". Check that next<br>action indicators appear.                                                                         |                                  |

**PROACTIVE-SIM: COMMAND : SET UP MENU 3.1.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Alpha identifier: "Toolkit Menu"

Item

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

Item

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

Item

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

Item

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

Items next action indicator list

List: "Send SM", "Set Up Call", "Launch Browser", "Provide Local Information"

Coding:

```

BER-TLV:  D0  41  81  03  01  25  00  82  02  81  82  85
           0C  54  6F  6F  6C  6B  69  74  20  4D  65  6E
           75  8F  07  01  49  74  65  6D  20  31  8F  07
           02  49  74  65  6D  20  32  8F  07  03  49  74
           65  6D  20  33  8F  07  04  49  74  65  6D  20
           34  18  04  13  10  15  26
    
```

**TERMINAL RESPONSE : SET UP MENU 3.1.1**

## Logically:

|                     |                                   |
|---------------------|-----------------------------------|
| Command details     |                                   |
| Command number:     | 1                                 |
| Command type:       | SET UP MENU                       |
| Command qualifier:  | « no help information available » |
| Device identities   |                                   |
| Source device:      | ME                                |
| Destination device: | SIM                               |
| Result              |                                   |
| General Result:     | Command performed successfully    |

## Coding:

BER-TLV: 81 03 01 25 00 82 02 82 81 83 01 00

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

##### 27.22.4.8.4.1 Definition and applicability

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

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

##### 27.22.4.8.4.2 Conformance Requirement

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

##### 27.22.4.8.4.3 Test Purpose

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

##### 27.22.4.8.4.4 Method of Test

###### 27.22.4.8.4.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

###### 27.22.4.8.4.4.2 Procedure

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

| Step | Direction    | MESSAGE / Action                                                                                                                                        | Comments                                                                      |
|------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 1    | SS → ME      | PROACTIVE COMMAND<br>PENDING: SET UP MENU 4.1.1                                                                                                         | [First Set Up Menu]                                                           |
| 2    | ME → SIM     | FETCH                                                                                                                                                   |                                                                               |
| 3    | SIM → ME     | PROACTIVE COMMAND SET UP<br>MENU 4.1.1                                                                                                                  |                                                                               |
| 4    | ME →<br>USER | Integrate the menu header of<br>"Toolkit Menu" into its menu<br>system and have the menu items<br>of "Item 1", "Item 2", "Item 3"<br>under this header. |                                                                               |
| 5    | ME → SIM     | TERMINAL RESPONSE: SET UP<br>MENU 4.1.1A                                                                                                                | [Command Performed Successfully]                                              |
|      |              | or                                                                                                                                                      | [Command Performed successfully but<br>requested icon could not be displayed] |
| 6    | SIM → ME     | SET UP MENU 4.1.1B<br>PROACTIVE SIM SESSION<br>ENDED                                                                                                    |                                                                               |
| 7    | USER →<br>ME | Select the Toolkit Menu<br>"Toolkit Menu"                                                                                                               | Verify the icon is displayed with alpha id.                                   |
| 8    | ME →<br>USER | Display "Item 1", "Item 2", "Item<br>3".                                                                                                                |                                                                               |
| 9    | USER →<br>ME | Navigate in the items, then<br>select "Item 2".                                                                                                         | Verify icons are displayed for each item.                                     |

**PROACTIVE ~~SIM:~~ COMMAND : SET UP MENU 4.1.1**

Logically:

Command details

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

Device identities

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

Item

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

Item

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

Item

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

Icon identifier

Icon qualifier: icon is not self explanatory  
 Icon identifier: record 1 EF (IMG)

Item icon identifier list

Icon qualifier: icon is not self explanatory  
 Icon identifier list: record 3 EF (IMG), record 4 EF (IMG), record 5 EF (IMG)

Coding:

```

BER-TLV:  D0  3C  81  03  01  25  00  82  02  81  82  85
           0C  54  6F  6F  6C  6B  69  74  20  4D  65  6E
           75  8F  07  01  49  74  65  6D  20  31  8F  07
           02  49  74  65  6D  20  32  8F  07  03  49  74
           65  6D  20  33  9E  02  01  01  9F  04  01  03
           04  05
    
```

**TERMINAL RESPONSE : SET UP MENU 4.1.1A**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: « no help information available »  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

## Coding:

BER-TLV: 81 03 01 25 00 82 02 82 81 83 01 00

**TERMINAL RESPONSE : SET UP MENU 4.1.1B**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: « no help information available »  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully but requested icon could not be displayed

## Coding:

BER-TLV: 81 03 01 25 00 82 02 82 81 83 01 04

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

| Step | Direction    | MESSAGE / Action                                                                                                                                        | Comments                                                                      |
|------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 1    | SS → ME      | PROACTIVE COMMAND<br>PENDING: SET UP MENU 4.2.1                                                                                                         | [First Set Up Menu]                                                           |
| 2    | ME → SIM     | FETCH                                                                                                                                                   |                                                                               |
| 3    | SIM → ME     | PROACTIVE COMMAND SET UP<br>MENU 4.2.1                                                                                                                  |                                                                               |
| 4    | ME →<br>USER | Integrate the menu header of<br>"Toolkit Menu" into its menu<br>system and have the menu items<br>of "Item 1", "Item 2", "Item 3"<br>under this header. |                                                                               |
| 5    | ME → SIM     | TERMINAL RESPONSE: SET UP<br>MENU 4.2.1A                                                                                                                | [Command Performed Successfully]                                              |
|      |              | or                                                                                                                                                      | [Command Performed successfully but<br>requested icon could not be displayed] |
| 6    | SIM → ME     | SET UP MENU 4.2.1B<br>PROACTIVE SIM SESSION<br>ENDED                                                                                                    |                                                                               |
| 7    | USER →<br>ME | Select the Toolkit Menu<br>"Toolkit Menu"                                                                                                               | Verify the icon is displayed in alpha id.                                     |
| 8    | ME →<br>USER | Display "Item 1", "Item 2", "Item<br>3".                                                                                                                |                                                                               |
| 9    | USER →<br>ME | Navigate in the items, then<br>select "Item 2".                                                                                                         | Verify icons are displayed for each item.                                     |

### PROACTIVE ~~SIM:~~ COMMAND : SET UP MENU 4.2.1

Logically:

Command details

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

Device identities

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

Item

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

Item

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

Item

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

Icon identifier

Icon qualifier: icon is self explanatory  
Icon identifier: record 1 EF (IMG)

Item icon identifier list

Icon qualifier: icon is self explanatory  
Icon identifier list: record 3 EF (IMG), record 4 EF (IMG), record 5 EF (IMG)

Coding:

```

BER-TLV:  D0  3C  81  03  01  25  00  82  02  81  82  85
           0C  54  6F  6F  6C  6B  69  74  20  4D  65  6E
           75  8F  07  01  49  74  65  6D  20  31  8F  07
           02  49  74  65  6D  20  32  8F  07  03  49  74
           65  6D  20  33  9E  02  00  01  9F  04  00  03
           04  05

```



**TERMINAL RESPONSE : SET UP MENU 4.2.1A**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: « no help information available »  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 25 00 82 02 82 81 83 01 00

**TERMINAL RESPONSE : SET UP MENU 4.2.1B**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: « no help information available »  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully but requested icon could not be displayed

Coding:

BER-TLV: 81 03 01 25 00 82 02 82 81 83 01 04

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

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

**27.22.4.8.5.2 Conformance Requirement**

Requirements are the same as in 27.22.4.8.1.1.

**27.22.4.8.5.3 Test Purpose**

To verify that if soft key preferred is indicated in the command details and soft key for SET UP MENU is supported by the ME and the number of icon items does not exceed the number of soft keys available, then the ME displays those icons as soft key.

#### 27.22.4.8.5.4 Method of Test

##### 27.22.4.8.5.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

##### 27.22.4.8.5.4.2 Procedure

Expected Sequence 5.1 (SET UP MENU, SOFT KEY PREFERRED, successful)

| Step | Direction    | MESSAGE / Action                                                                                                                              | Comments                                        |
|------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1    | SS → ME      | PROACTIVE COMMAND<br>PENDING: SET UP MENU 5.1.1                                                                                               | [First Set Up Menu]                             |
| 2    | ME → SIM     | FETCH                                                                                                                                         |                                                 |
| 3    | SIM → ME     | PROACTIVE COMMAND SET UP<br>MENU 5.1.1                                                                                                        |                                                 |
| 4    | ME →<br>USER | Integrate the menu header of<br>"Toolkit Menu" into its menu<br>system and have the menu items<br>of "Item 1", "Item 2" under this<br>header. |                                                 |
| 5    | ME → SIM     | TERMINAL RESPONSE: SET UP<br>MENU 5.1.1                                                                                                       | [Command Performed Successfully]                |
| 6    | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                                                                |                                                 |
| 7    | USER →<br>ME | Select the Toolkit Menu<br>"Toolkit Menu"                                                                                                     |                                                 |
| 8    | ME →<br>USER | Display "Item 1", "Item 2"                                                                                                                    |                                                 |
| 9    | USER →<br>ME | Navigate in the items, then<br>select "Item 2".                                                                                               | Verify we can select items through soft<br>keys |

**PROACTIVE-SIM: COMMAND : SET UP MENU 5.1.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: "01" (selection using soft key preferred)

Device identities

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

Item

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

Item

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

Coding:

```

BER-TLV:  D0  29  81  03  01  25  01  82  02  81  82  85
           0C  54  6F  6F  6C  6B  69  74  20  4D  65  6E
           75  8F  07  01  49  74  65  6D  20  31  8F  07
           02  49  74  65  6D  20  32
    
```

**TERMINAL RESPONSE : SET UP MENU 5.1.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP MENU  
 Command qualifier: « no help information available »

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 25 00 82 02 82 81 83 01 00

## 27.22.4.9 SELECT ITEM

### 27.22.4.9.1 SELECT ITEM (mandatory features for ME supporting SELECT ITEM)

#### 27.22.4.9.1.1 Definition and applicability

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

The SELECT ITEM proactive SIM command shall supply a set of items from which the user may choose one. Each item comprises a short identifier (used to indicate the selection) and a text string. Optionally the SIM may include an alpha identifier. The alpha identifier is intended to act as a title for the list of items.

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

#### 27.22.4.9.1.2 Conformance Requirement

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

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

#### 27.22.4.9.1.3 Test Purpose

To verify that the ME correctly presents the set of items contained in the SELECT ITEM proactive SIM command, and returns a TERMINAL RESPONSE command to the SIM with the identifier of the item chosen.

To verify that the ME allows a SELECT ITEM proactive SIM command within the maximum 255 byte BER-TLV boundary.

To verify that the ME returns a TERMINAL RESPONSE with "Proactive SIM application session terminated by the user", if the user has indicated the need to end the proactive SIM session.

To verify that the ME returns a TERMINAL RESPONSE with "Backwards move in the proactive SIM application session requested by the user", if the user has indicated the need to go backwards in the proactive SIM application session.

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

#### 27.22.4.9.1.4 Method of Test

##### 27.22.4.9.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.9.1.4.2 Procedure

Expected Sequence 1.1 (SELECT ITEM, mandatory features, successful)

| Step | Direction | MESSAGE / Action                                                                                       | Comments                       |
|------|-----------|--------------------------------------------------------------------------------------------------------|--------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: SELECT ITEM 1.1.1                                                        |                                |
| 2    | ME → SIM  | FETCH                                                                                                  |                                |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>SELECT ITEM 1.1.1                                                                |                                |
| 4    | ME → USER | Display items of "Item 1", "Item 2",<br>"Item 3" and "Item 4" under the<br>header of "Toolkit Select". |                                |
| 5    | USER → ME | Select "Item 2".                                                                                       |                                |
| 6    | ME → SIM  | TERMINAL RESPONSE: SELECT<br>ITEM 1.1.1                                                                | Command performed successfully |

**Proactive SIM Command**PROACTIVE COMMAND-1.1.1: **SELECT ITEM** 1.1.1

Logically:

Command details

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

Device identities

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

Item

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

Item

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

Item

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

Item

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

Coding:

```

BER-TLV:  D0  3D  81  03  01  24  00  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  01  49  74  65  6D  20  31
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33  8F  07  04  49  74  65
           6D  20  34
    
```

**TERMINAL RESPONSE : SELECT ITEM 1.1.1**

Logically:

## Command details

|                    |             |
|--------------------|-------------|
| Command number:    | 1           |
| Command type:      | SELECT ITEM |
| Command qualifier: | “00”        |

## Device identities

|                     |     |
|---------------------|-----|
| Source device:      | ME  |
| Destination device: | SIM |

## Result

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

## Item identifier

|                            |    |
|----------------------------|----|
| Identifier of item chosen: | 02 |
|----------------------------|----|

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 24 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 90 | 01 | 02 |    |    |    |    |    |    |    |    |    |

Expected Sequence 1.2 (SELECT ITEM, large menu, successful)

| Step | Direction | MESSAGE / Action                                                                                                                                                                                                                                                                                                                                                                                   | Comments                       |
|------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 7    | SIM → ME  | PROACTIVE COMMAND                                                                                                                                                                                                                                                                                                                                                                                  |                                |
| 8    | ME → SIM  | PENDING: SELECT ITEM 1.2.1                                                                                                                                                                                                                                                                                                                                                                         |                                |
| 9    | SIM → ME  | FETCH                                                                                                                                                                                                                                                                                                                                                                                              |                                |
| 10   | ME → USER | PROACTIVE COMMAND:<br>SELECT ITEM 1.2.1<br>Present the items of "Zero", "One",<br>"Two", "Three", "Four", "Five",<br>"Six", "Seven", "Eight", "Nine",<br>"Alpha", "Bravo", "Charlie",<br>"Delta", "Echo", "Fox-trot", "Black",<br>"Brown", "Red", "Orange",<br>"Yellow", "Green", "Blue", "Violet",<br>"Grey", "White", "milli", "micro",<br>"nano" and "pico" under the<br>header of "LargeMenu1" |                                |
| 11   | USER → ME | Select item "Orange".                                                                                                                                                                                                                                                                                                                                                                              |                                |
| 12   | ME → SIM  | TERMINAL RESPONSE: SELECT<br>ITEM 1.2.1                                                                                                                                                                                                                                                                                                                                                            | Command performed successfully |

**Proactive SIM Command PROACTIVE COMMAND 1.2.1: SELECT ITEM 1.2.1**

Logically:

Command details

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

Device identities

Source device: SIM  
Destination device: ME

Alpha Identifier: "LargeMenu1"

Item

Identifier of item: "50"  
Text string of item: "Zero"

Item

Identifier of item: "4F"  
Text string of item: "One"

Item

Identifier of item: "4E"  
Text string of item: "Two"

Item

Identifier of item: "4D"  
Text string of item: "Three"

Item

Identifier of item: "4C"  
Text string of item: "Four"

Item

Identifier of item: "4B"  
Text string of item: "Five"

Item

Identifier of item: "4A"  
Text string of item: "Six"

Item

Identifier of item: "49"  
Text string of item: "Seven"

Item

Identifier of item: "48"  
Text string of item: "Eight"

Item

Identifier of item: "47"  
Text string of item: "Nine"

Item

Identifier of item: "46"

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



Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | FC | 81 | 03 | 01 | 24 | 00 | 82 | 02 | 81 | 82 |
|          | 85 | 0A | 4C | 61 | 72 | 67 | 65 | 4D | 65 | 6E | 75 | 31 |
|          | 8F | 05 | 50 | 5A | 65 | 72 | 6F | 8F | 04 | 4F | 4F | 6E |
|          | 65 | 8F | 04 | 4E | 54 | 77 | 6F | 8F | 06 | 4D | 54 | 68 |
|          | 72 | 65 | 65 | 8F | 05 | 4C | 46 | 6F | 75 | 72 | 8F | 05 |
|          | 4B | 46 | 69 | 76 | 65 | 8F | 04 | 4A | 53 | 69 | 78 | 8F |
|          | 06 | 49 | 53 | 65 | 76 | 65 | 6E | 8F | 06 | 48 | 45 | 69 |
|          | 67 | 68 | 74 | 8F | 05 | 47 | 4E | 69 | 6E | 65 | 8F | 06 |
|          | 46 | 41 | 6C | 70 | 68 | 61 | 8F | 06 | 45 | 42 | 72 | 61 |
|          | 76 | 6F | 8F | 08 | 44 | 43 | 68 | 61 | 72 | 6C | 69 | 65 |
|          | 8F | 06 | 43 | 44 | 65 | 6C | 74 | 61 | 8F | 05 | 42 | 45 |
|          | 63 | 68 | 6F | 8F | 09 | 41 | 46 | 6F | 78 | 2D | 74 | 72 |
|          | 6F | 74 | 8F | 06 | 40 | 42 | 6C | 61 | 63 | 6B | 8F | 06 |
|          | 3F | 42 | 72 | 6F | 77 | 6E | 8F | 04 | 3E | 52 | 65 | 64 |
|          | 8F | 07 | 3D | 4F | 72 | 61 | 6E | 67 | 65 | 8F | 07 | 3C |
|          | 59 | 65 | 6C | 6C | 6F | 77 | 8F | 06 | 3B | 47 | 72 | 65 |
|          | 65 | 6E | 8F | 05 | 3A | 42 | 6C | 75 | 65 | 8F | 07 | 39 |
|          | 56 | 69 | 6F | 6C | 65 | 74 | 8F | 05 | 38 | 47 | 72 | 65 |
|          | 79 | 8F | 06 | 37 | 57 | 68 | 69 | 74 | 65 | 8F | 06 | 36 |
|          | 6D | 69 | 6C | 6C | 69 | 8F | 06 | 35 | 6D | 69 | 63 | 72 |
|          | 6F | 8F | 05 | 34 | 6E | 61 | 6E | 6F | 8F | 05 | 33 | 70 |
|          | 69 | 63 | 6F |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SELECT ITEM 1.2.1**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Item identifier

Identifier of item chosen: 3D

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 24 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 90 | 01 | 3D |    |    |    |    |    |    |    |    |    |

Expected Sequence 1.3 (SELECT ITEM, call options, successful)

| Step | Direction    | MESSAGE / Action                                                                                                                                                                                                                                                                             | Comments                       |
|------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 13   | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SELECT ITEM 1.3.1                                                                                                                                                                                                                                              |                                |
| 14   | ME → SIM     | FETCH                                                                                                                                                                                                                                                                                        |                                |
| 15   | SIM → ME     | PROACTIVE COMMAND:<br>SELECT ITEM 1.3.1                                                                                                                                                                                                                                                      |                                |
| 16   | ME →<br>USER | Present the items of " Call Forwarding Unconditional", "Call Forward On User Busy", "Call Forward On No Reply", "Call Forward On User Not Reachable", "Barring Of All Outgoing Calls", "Barring Of All Outgoing International Calls" and "CLI Presentation" under the header of " LargeMenu2 |                                |
| 17   | USER →<br>ME | Select item "Barring Of All Outgoing Calls".                                                                                                                                                                                                                                                 |                                |
| 18   | ME → SIM     | TERMINAL RESPONSE: SELECT ITEM 1.3.1                                                                                                                                                                                                                                                         | Command performed successfully |
| 19   | SIM → ME     | PROACTIVE SIM SESSION ENDED                                                                                                                                                                                                                                                                  |                                |

**Proactive SIM Command PROACTIVE COMMAND 1.3.1 : SELECT ITEM 1.3.1**

Logically:

```

Command details
  Command number:      1
  Command type:       SELECT ITEM
  Command qualifier:   "00"
Device identities
  Source device:      SIM
  Destination device: ME
Alpha Identifier:     "LargeMenu2"
Item
  Identifier of item:  "FF"
  Text string of item: "Call Forwarding Unconditional"
Item
  Identifier of item:  "FE"
  Text string of item: "Call Forwarding On User Busy"
Item
  Identifier of item:  "FD"
  Text string of item: "Call Forwarding On No Reply"
Item
  Identifier of item:  "FC"
  Text string of item: "Call Forwarding On User Not Reachable"
Item
  Identifier of item:  "FB"
  Text string of item: "Barring Of All Outgoing Calls"
Item
  Identifier of item:  "FA"
  Text string of item: "Barring Of All Outgoing International Calls"
Item
  Identifier of item:  "F9"
  Text string of item: "CLI Presentation"
    
```

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | FB | 81 | 03 | 01 | 24 | 00 | 82 | 02 | 81 | 82 |
|          | 85 | 0A | 4C | 61 | 72 | 67 | 65 | 4D | 65 | 6E | 75 | 32 |
|          | 8F | 1E | FF | 43 | 61 | 6C | 6C | 20 | 46 | 6F | 72 | 77 |
|          | 61 | 72 | 64 | 69 | 6E | 67 | 20 | 55 | 6E | 63 | 6F | 6E |
|          | 64 | 69 | 74 | 69 | 6F | 6E | 61 | 6C | 8F | 1D | FE | 43 |
|          | 61 | 6C | 6C | 20 | 46 | 6F | 72 | 77 | 61 | 72 | 64 | 69 |
|          | 6E | 67 | 20 | 4F | 6E | 20 | 55 | 73 | 65 | 72 | 20 | 42 |
|          | 75 | 73 | 79 | 8F | 1C | FD | 43 | 61 | 6C | 6C | 20 | 46 |
|          | 6F | 72 | 77 | 61 | 72 | 64 | 69 | 6E | 67 | 20 | 4F | 6E |
|          | 20 | 4E | 6F | 20 | 52 | 65 | 70 | 6C | 79 | 8F | 26 | FC |
|          | 43 | 61 | 6C | 6C | 20 | 46 | 6F | 72 | 77 | 61 | 72 | 64 |
|          | 69 | 6E | 67 | 20 | 4F | 6E | 20 | 55 | 73 | 65 | 72 | 20 |
|          | 4E | 6F | 74 | 20 | 52 | 65 | 61 | 63 | 68 | 61 | 62 | 6C |
|          | 65 | 8F | 1E | FB | 42 | 61 | 72 | 72 | 69 | 6E | 67 | 20 |
|          | 4F | 66 | 20 | 41 | 6C | 6C | 20 | 4F | 75 | 74 | 67 | 6F |
|          | 69 | 6E | 67 | 20 | 43 | 61 | 6C | 6C | 73 | 8F | 2C | FA |
|          | 42 | 61 | 72 | 72 | 69 | 6E | 67 | 20 | 4F | 66 | 20 | 41 |
|          | 6C | 6C | 20 | 4F | 75 | 74 | 67 | 6F | 69 | 6E | 67 | 20 |
|          | 49 | 6E | 74 | 65 | 72 | 6E | 61 | 74 | 69 | 6F | 6E | 61 |
|          | 6C | 20 | 43 | 61 | 6C | 6C | 73 | 8F | 11 | F9 | 43 | 4C |
|          | 49 | 20 | 50 | 72 | 65 | 73 | 65 | 6E | 74 | 61 | 74 | 69 |
|          | 6F | 6E |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SELECT ITEM 1.3.1**

Logically:

Command details

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

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command performed successfully

Item identifier

Identifier of item chosen: FB

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 24 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 90 | 01 | FB |    |    |    |    |    |    |    |    |    |

Expected Sequence 1.4 (SELECT ITEM, backward move by user, successful)

| Step | Direction | MESSAGE / Action                                                                     | Comments |                                                                          |
|------|-----------|--------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------|
| 20   | SIM → ME  | PROACTIVE COMMAND<br>PENDING: SELECT ITEM 1.4.1                                      | [        |                                                                          |
| 21   | ME → SIM  | FETCH                                                                                |          |                                                                          |
| 22   | SIM → ME  | PROACTIVE COMMAND:<br>SELECT ITEM 1.4.1                                              |          |                                                                          |
| 23   | ME → USER | Present the items of "One" and "Two" under the header of "Select Item".              |          |                                                                          |
| 24   | USER → ME | Indicate to go backwards in the proactive SIM application session.                   |          |                                                                          |
| 25   | ME → SIM  | TERMINAL RESPONSE: SELECT ITEM 1.4.1                                                 |          | Backward move in the proactive SIM application session requested by user |
| 26   | SIM → ME  | PROACTIVE COMMAND<br>PENDING: SELECT ITEM 1.4.2                                      |          |                                                                          |
| 27   | ME → SIM  | FETCH                                                                                |          |                                                                          |
| 28   | SIM → ME  | PROACTIVE COMMAND:<br>SELECT ITEM 1.4.2                                              |          |                                                                          |
| 29   | ME → USER | Present the items of "One" and "Two" under the header of "Select Item".              |          |                                                                          |
| 30   | USER → ME | Indicate to end the proactive SIM application and return the ME to normal operation. |          |                                                                          |
| 31   | ME → SIM  | TERMINAL RESPONSE: SELECT ITEM 1.4.2                                                 |          | Proactive SIM application terminated by the user                         |
| 32   | SIM → ME  | PROACTIVE SIM SESSION ENDED                                                          |          |                                                                          |

**Proactive SIM Command PROACTIVE COMMAND 1.4.1 and 1.4.2 : SELECT ITEM 1.4.1 and 1.4.2**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME  
 Alpha identifier: "Select Item"

Item

Identifier of item: "11"  
 Text string of item: "One"

Item

Identifier of item: "12"  
 Text string of item: "Two"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 24 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 0B | 53 | 65 | 6C | 65 | 63 | 74 | 20 | 49 | 74 | 65 | 6D |
|          | 8F | 04 | 11 | 4F | 6E | 65 | 8F | 04 | 12 | 54 | 77 | 6F |

**TERMINAL RESPONSE : SELECT ITEM 1.4.1**

Logically:

Command details

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

Device identities

Source device: ME  
Destination device: SIM

Result

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

Coding:

BER-TLV: 81 03 01 24 00 82 02 82 81 83 01 11

**TERMINAL RESPONSE : SELECT ITEM 1.4.2**

Logically:

Command details

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

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: proactive SIM session terminated by the user

Coding:

BER-TLV: 81 03 01 24 00 82 02 82 81 83 01 10

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

| Step | Direction | MESSAGE / Action                                                                                                                                                                                                                                                                              | Comments                       |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 33   | SIM → ME  | PROACTIVE COMMAND                                                                                                                                                                                                                                                                             |                                |
| 34   | ME → SIM  | PENDING: SELECT ITEM 1.5.1                                                                                                                                                                                                                                                                    |                                |
| 35   | SIM → ME  | FETCH<br>PROACTIVE COMMAND:<br>SELECT ITEM 1.5.1                                                                                                                                                                                                                                              |                                |
| 36   | ME → USER | Present the items of "Y" under the header of "The SIM shall supply a set of items from which the user may choose one. Each item comprises a short identifier (used to indicate the selection) and a text string. Optionally the SIM may include an alpha identifier. The alpha identifier i". |                                |
| 37   | USER → ME | Select item "Y"                                                                                                                                                                                                                                                                               |                                |
| 38   | ME → SIM  | TERMINAL RESPONSE: SELECT ITEM 1.5.1                                                                                                                                                                                                                                                          | Command performed successfully |
| 39   | SIM → ME  | PROACTIVE SIM SESSION ENDED                                                                                                                                                                                                                                                                   |                                |

**Proactive SIM Command PROACTIVE COMMAND 1.5.1 : SELECT ITEM 1.5.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Alpha Identifier:

"The SIM shall supply a set of items from which the user may choose one. Each item comprises a short identifier (used to indicate the selection) and a text string. Optionally the SIM may include an alpha identifier. The alpha identifier i"

Item

Identifier of item: "01"  
 Text string of item: "Y"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | FD | 81 | 03 | 01 | 24 | 00 | 82 | 02 | 81 | 82 |
|          | 85 | 81 | ED | 54 | 68 | 65 | 20 | 53 | 49 | 4D | 20 | 73 |
|          | 68 | 61 | 6C | 6C | 20 | 73 | 75 | 70 | 70 | 6C | 79 | 20 |
|          | 61 | 20 | 73 | 65 | 74 | 20 | 6F | 66 | 20 | 69 | 74 | 65 |
|          | 6D | 73 | 20 | 66 | 72 | 6F | 6D | 20 | 77 | 68 | 69 | 63 |
|          | 68 | 20 | 74 | 68 | 65 | 20 | 75 | 73 | 65 | 72 | 20 | 6D |
|          | 61 | 79 | 20 | 63 | 68 | 6F | 6F | 73 | 65 | 20 | 6F | 6E |
|          | 65 | 2E | 20 | 45 | 61 | 63 | 68 | 20 | 69 | 74 | 65 | 6D |
|          | 20 | 63 | 6F | 6D | 70 | 72 | 69 | 73 | 65 | 73 | 20 | 61 |
|          | 20 | 73 | 68 | 6F | 72 | 74 | 20 | 69 | 64 | 65 | 6E | 74 |
|          | 69 | 66 | 69 | 65 | 72 | 20 | 28 | 75 | 73 | 65 | 64 | 20 |
|          | 74 | 6F | 20 | 69 | 6E | 64 | 69 | 63 | 61 | 74 | 65 | 20 |
|          | 74 | 68 | 65 | 20 | 73 | 65 | 6C | 65 | 63 | 74 | 69 | 6F |
|          | 6E | 29 | 20 | 61 | 6E | 64 | 20 | 61 | 20 | 74 | 65 | 78 |
|          | 74 | 20 | 73 | 74 | 72 | 69 | 6E | 67 | 2E | 20 | 4F | 70 |
|          | 74 | 69 | 6F | 6E | 61 | 6C | 6C | 79 | 20 | 74 | 68 | 65 |
|          | 20 | 53 | 49 | 4D | 20 | 6D | 61 | 79 | 20 | 69 | 6E | 63 |
|          | 6C | 75 | 64 | 65 | 20 | 61 | 6E | 20 | 61 | 6C | 70 | 68 |
|          | 61 | 20 | 69 | 64 | 65 | 6E | 74 | 69 | 66 | 69 | 65 | 72 |
|          | 2E | 20 | 54 | 68 | 65 | 20 | 61 | 6C | 70 | 68 | 61 | 20 |
|          | 69 | 64 | 65 | 6E | 74 | 69 | 66 | 69 | 65 | 72 | 20 |    |
|          | 69 | 8F | 02 | 01 | 59 |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SELECT ITEM 1.5.1**

Logically:

```

Command details
  Command number:      1
  Command type:       SELECT ITEM
  Command qualifier:   "00"
Device identities
  Source device:      ME
  Destination device: SIM
Result
  General Result:     Command performed successfully
Item identifier
  Identifier of item chosen: 01
    
```

Coding:

```

BER-TLV:  81  03  01  24  00  82  02  82  81  83  01  00
          90  01  01
    
```

Expected Sequence 1.6 (SELECT ITEM, Large menu, successful)

| Step | Direction    | MESSAGE / Action                                                                                                                                                                                                                                                                                                         | Comments                       |
|------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 40   | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SELECT ITEM 1.6.1                                                                                                                                                                                                                                                                          |                                |
| 41   | ME → SIM     | FETCH                                                                                                                                                                                                                                                                                                                    |                                |
| 42   | SIM → ME     | PROACTIVE COMMAND:<br>SELECT ITEM 1.6.1                                                                                                                                                                                                                                                                                  |                                |
| 43   | ME →<br>USER | Present the items of "1 Call<br>Forward Unconditional", "2 Call<br>Forward On User Busy", "3 Call<br>Forward On No Reply", "4 Call<br>Forward On User Not Reachable",<br>"5 Barring Of All Outgoing Calls",<br>"6 Barring Of All Outgoing Int<br>Calls" and "7 CLI Presentation"<br>under the header of<br>"0LargeMenu". |                                |
| 44   | USER →<br>ME | Select item "5 Barring Of All<br>Outgoing Calls".                                                                                                                                                                                                                                                                        |                                |
| 45   | ME → SIM     | TERMINAL RESPONSE: SELECT<br>ITEM 1.6.1                                                                                                                                                                                                                                                                                  | Command performed successfully |



**Proactive SIM Command**PROACTIVE COMMAND 1-6.1 : SELECT ITEM 1.6.1

Logically:

```

Command details
  Command number:      1
  Command type:       SELECT ITEM
  Command qualifier:   "00"
Device identities
  Source device:      SIM
  Destination device: ME
Alpha Identifier:    "0LargeMenu"
Item
  Identifier of item:  "FF"
  Text string of item: "1 Call Forward Unconditional"
Item
  Identifier of item:  "FE"
  Text string of item: "2 Call Forward On User Busy"
Item
  Identifier of item:  "FD"
  Text string of item: "3 Call Forward On No Reply"
Item
  Identifier of item:  "FC"
  Text string of item: "4 Call Forward On User Not Reachable"
Item
  Identifier of item:  "FB"
  Text string of item: "5 Barring Of All Outgoing Calls"
Item
  Identifier of item:  "FA"
  Text string of item: "6 Barring Of All Outgoing Int Calls"
Item
  Identifier of item:  "F9"
  Text string of item: "7 CLI Presentation"
    
```

Coding:

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

**TERMINAL RESPONSE : SELECT ITEM 1.5**

Logically:

```

Command details
  Command number:      1
  Command type:       SELECT ITEM
    
```

Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Command performed successfully  
 Item identifier  
   Identifier of item chosen: FB

## Coding:

BER-TLV: 81 03 01 24 00 82 02 82 81 83 01 00  
           90 01 FB

The following table details the test commands with relation to the tested features:

| Proactive SIM Command Facilities         |                         |                 |                        |
|------------------------------------------|-------------------------|-----------------|------------------------|
| Proactive SIM Command SELECT ITEM Number | Alpha Identifier Length | Number of items | Maximum length of item |
| 1.1                                      | 14                      | 4               | 6                      |
| 1.2                                      | 10                      | 30              | 8                      |
| 1.3                                      | 10                      | 7               | 43                     |
| 1.4                                      | 11                      | 2               | 3                      |
| 1.5                                      | 236                     | 1               | 1                      |
| 1.6                                      | 10                      | 7               | 37                     |

## 27.22.4.9.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 1.1, 1.2, 1.3, 1.4, 1.5 and 1.6 (SELECT ITEM, mandatory features).

## 27.22.4.9.2 SELECT ITEM (next action support)

## 27.22.4.9.2.1 Definition and applicability

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

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

#### 27.22.4.9.2.2 Conformance Requirement

Same as 27.22.4.9.1.2

#### 27.22.4.9.2.3 Test Purpose

To verify that the mobile supports next action indicator mode.

#### 27.22.4.9.2.4 Method of Test

##### 27.22.4.9.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

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

##### 27.22.4.9.2.4.2 Procedure

Expected Sequence 2.1 (SELECT ITEM, next action indicator, successful)

| Step | Direction | MESSAGE / Action                                                                                                                                                                                                                      | Comments                       |
|------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND                                                                                                                                                                                                                     |                                |
| 2    | ME → SIM  | PENDING: SELECT ITEM 2.1.1                                                                                                                                                                                                            |                                |
| 3    | SIM → ME  | FETCH                                                                                                                                                                                                                                 |                                |
| 4    | ME → USER | PROACTIVE COMMAND:<br>SELECT ITEM 2.1.1<br>Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select".<br>It presents also the following next action indicators: Send SM, Set Up Call, Provide Local Info. |                                |
| 5    | USER → ME | Navigate in the items, then select "Item 2". Check that next action indicators appear.                                                                                                                                                |                                |
| 6    | ME → SIM  | TERMINAL RESPONSE: SELECT ITEM 2.1.1                                                                                                                                                                                                  | Command performed successfully |

**Proactive SIM Command PROACTIVE COMMAND 2.1.1: SELECT ITEM 2.1.1**

Logically:

Command details

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

Device identities

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

Item

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

Item

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

Item

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

Items next action indicator

Items list "Send SM", "Set Up Call", "Provide Local Info."

Coding:

```

BER-TLV:  D0  39  81  03  01  24  00  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  01  49  74  65  6D  20  31
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33  18  03  13  10  26
    
```

**TERMINAL RESPONSE : SELECT ITEM 2.1.1**

Logically:

|                            |                                |
|----------------------------|--------------------------------|
| Command details            |                                |
| Command number:            | 1                              |
| Command type:              | SELECT ITEM                    |
| Command qualifier:         | “00”                           |
| Device identities          |                                |
| Source device:             | ME                             |
| Destination device:        | SIM                            |
| Result                     |                                |
| General Result:            | Command performed successfully |
| Item identifier            |                                |
| Identifier of item chosen: | 02                             |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 24 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 90 | 01 | 02 |    |    |    |    |    |    |    |    |    |

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

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

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

**27.22.4.9.3.2 Conformance Requirement**

Same as 27.22.4.9.1.2

**27.22.4.9.3.3 Test Purpose**

To verify that the mobile supports “default item” mode.

**27.22.4.9.3.4 Method of Test****27.22.4.9.3.4.1 Initial Conditions**

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

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

**27.22.4.9.3.4.2 Procedure**

Expected Sequence 3.1 (SELECT ITEM, default item, successful)

| Step | Direction | MESSAGE / Action                                                                                                                  | Comments                                    |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND                                                                                                                 |                                             |
| 2    | ME → SIM  | PENDING: SELECT ITEM 3.1.1                                                                                                        |                                             |
| 3    | SIM → ME  | FETCH                                                                                                                             |                                             |
| 4    | ME → USER | PROACTIVE COMMAND:<br>SELECT ITEM 3.1.1<br>Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select". | Check that "Item 2" is selected by default. |
| 5    | USER → ME | Navigate in the items, then select "Item 3".                                                                                      |                                             |
| 6    | ME → SIM  | TERMINAL RESPONSE: SELECT ITEM 3.1.1                                                                                              | Command performed successfully              |

**Proactive SIM Command PROACTIVE COMMAND\_3.1.1: SELECT ITEM 3.1.1**

Logically:

Command details

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

Device identities

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

Item

Identifier of item: 01  
 Text string of item: "Item 1"

Item

Identifier of item: 02  
 Text string of item: "Item 2"

Item

Identifier of item: 03  
 Text string of item: "Item 3"

Item identifier

Identifier of item chosen 02

Coding:

```

BER-TLV:  D0  37  81  03  01  24  00  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  49  74  65  6D  20  32  8F  07  03
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33  90  01  02
    
```

**TERMINAL RESPONSE : SELECT ITEM 3.1.1**

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Item identifier

Identifier of item chosen: 03

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 24 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 90 | 01 | 03 |    |    |    |    |    |    |    |    |    |

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

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

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

**27.22.4.9.4.2 Conformance Requirement**

Same as 27.22.4.9.1.2

**27.22.4.9.4.3 Test Purpose**

To verify that the mobile supports "help request" for the command Select Item.

**27.22.4.9.4.4 Method of Test****27.22.4.9.4.4.1 Initial Conditions**

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.9.4.4.2 Procedure

Expected Sequence 4.1 (SELECT ITEM, help request, successful)

| Step | Direction | MESSAGE / Action                                                                       | Comments                                |
|------|-----------|----------------------------------------------------------------------------------------|-----------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: SELECT ITEM 4.1.1                                        |                                         |
| 2    | ME → SIM  | FETCH                                                                                  |                                         |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>SELECT ITEM 4.1.1                                                | [Help information available]            |
| 4    | ME → USER | Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select". |                                         |
| 5    | USER → ME | Navigate in the items, then select "Item 1".                                           |                                         |
| 6    | ME → SIM  | TERMINAL RESPONSE: SELECT ITEM 4.1.1                                                   | [Help information required by the user] |

**Proactive SIM Command** PROACTIVE COMMAND 4.1.1: SELECT ITEM 4.1.1

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "80" help information available

Device identities

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

Item

Identifier of item: 01  
 Text string of item: "Item 1"

Item

Identifier of item: 02  
 Text string of item: "Item 2"

Item

Identifier of item: 03  
 Text string of item: "Item 3"

Coding:

```

BER-TLV:  D0  34  81  03  01  24  80  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  01  49  74  65  6D  20  31
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33
    
```



**TERMINAL RESPONSE : SELECT ITEM 4.1.1**

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "80"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Help information required by the user

## Item identifier

Identifier of item chosen: 01

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 24 | 80 | 82 | 02 | 82 | 81 | 83 | 01 | 13 |
|          | 90 | 01 | 01 |    |    |    |    |    |    |    |    |    |

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

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

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

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

**27.22.4.9.5.2 Conformance Requirement**

Same as 27.22.4.9.1.2, and GSM 11.14 clause 12.31, and clause 12.32.

**27.22.4.9.5.3 Test Purpose**

To verify that the mobile displays icons with the command Select Item.

**27.22.4.9.5.4 Method of Test****27.22.4.9.5.4.1 Initial Conditions**

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.9.5.4.2 Procedure

Expected Sequence 5.1 (SELECT ITEM, BASIC ICON NOT SELF EXPLANATORY, successful)

| Step | Direction | MESSAGE / Action                                                                       | Comments                                                                                                             |
|------|-----------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND                                                                      |                                                                                                                      |
| 2    | ME → SIM  | PENDING: SELECT ITEM 5.1.1                                                             |                                                                                                                      |
| 3    | SIM → ME  | FETCH                                                                                  |                                                                                                                      |
| 4    | ME → USER | PROACTIVE COMMAND:<br>SELECT ITEM 5.1.1                                                | Verify icons are displayed in the alpha identifier and in the 3 items.                                               |
| 5    | USER → ME | Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select". |                                                                                                                      |
| 6    | ME → SIM  | Navigate in the items, then select "Item 1".                                           |                                                                                                                      |
|      |           | TERMINAL RESPONSE: SELECT ITEM 5.1.1 A<br>Or 5.1.1B                                    | [command performed successfully]<br>or<br>[command performed successfully but requested icon could not be displayed] |

### Proactive SIM Command PROACTIVE COMMAND 5.1.1: SELECT ITEM 5.1.1

Logically:

Command details

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

Device identities

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

Item

Identifier of item: 01  
Text string of item: "Item 1"

Item

Identifier of item: 02  
Text string of item: "Item 2"

Item

Identifier of item: 03  
Text string of item: "Item 3"

Icon Identifier:

Icon qualifier: "01" (icon is not self-explanatory)  
Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Item icon identifier list:

Icon qualifier: "01" (icon is not self-explanatory)  
Icon Identifier: record 3 in EF<sub>(IMG)</sub>, record 4 in EF<sub>(IMG)</sub>, record 5 in EF<sub>(IMG)</sub>

Coding:

```

BER-TLV:  D0  3E  81  03  01  24  00  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  01  49  74  65  6D  20  31
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33  9E  02  01  01  9F  04
           01  03  04  05

```

**TERMINAL RESPONSE: SELECT ITEM 5.1.1A**

Logically:

Command details  
 Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Item identifier  
 Identifier of item chosen: 01

Coding:

```
BER-TLV: 81 03 01 24 00 82 02 82 81 83 01 00
          90 01 01
```

**TERMINAL RESPONSE : SELECT ITEM 5.1.1B**

Logically:

Command details  
 Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully but requested icon could not be displayed  
 Item identifier  
 Identifier of item chosen: 01

Coding:

```
BER-TLV: 81 03 01 24 00 82 02 82 81 83 01 04
          90 01 01
```

Expected Sequence 5.2 (SELECT ITEM, BASIC ICON SELF EXPLANATORY, successful)

| Step | Direction | MESSAGE / Action                                                                       | Comments                                                                                                             |
|------|-----------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND                                                                      |                                                                                                                      |
| 2    | ME → SIM  | PENDING: SELECT ITEM 5.2.1                                                             |                                                                                                                      |
| 3    | SIM → ME  | FETCH                                                                                  |                                                                                                                      |
| 4    | ME → USER | PROACTIVE COMMAND:<br>SELECT ITEM 5.2.1                                                | Verify icons are displayed without text as alpha id and for the all 3 items.                                         |
| 5    | USER → ME | Display items of "Item 1", "Item 2" and "Item 3" under the header of "Toolkit Select". |                                                                                                                      |
| 6    | ME → SIM  | Navigate in the items, then select "Item 1".                                           |                                                                                                                      |
|      |           | TERMINAL RESPONSE: SELECT ITEM 5.2.1 A<br>Or 5.2.1B                                    | [command performed successfully]<br>or<br>[command performed successfully but requested icon could not be displayed] |

### Proactive SIM Command PROACTIVE COMMAND 5.2.1: SELECT ITEM 5.2.1

Logically:

Command details

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

Device identities

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

Item

Identifier of item: 01  
Text string of item: "Item 1"

Item

Identifier of item: 02  
Text string of item: "Item 2"

Item

Identifier of item: 03  
Text string of item: "Item 3"

Icon Identifier:

Icon qualifier: "00" (icon is self-explanatory)  
Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Item icon identifier list:

Icon qualifier: "00" (icon is self-explanatory)  
Icon Identifier: record 3 in EF<sub>(IMG)</sub>, record 4 in EF<sub>(IMG)</sub>, record 5 in EF<sub>(IMG)</sub>

Coding:

```

BER-TLV:  D0  3E  81  03  01  24  00  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  01  49  74  65  6D  20  31
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33  9E  02  00  01  9F  04
           00  03  04  05

```

**TERMINAL RESPONSE : SELECT ITEM 5.2.1A**

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Item identifier

Identifier of item chosen: 01

Coding:

```
BER-TLV: 81 03 01 24 00 82 02 82 81 83 01 00
          90 01 01
```

**TERMINAL RESPONSE : SELECT ITEM 5.2.1B**

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

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

## Item identifier

Identifier of item chosen: 01

Coding:

```
BER-TLV: 81 03 01 24 00 82 02 82 81 83 01 04
          90 01 01
```

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

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

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

#### 27.22.4.9.6.2 Conformance Requirement

Same as 27.22.4.9.1.2.

#### 27.22.4.9.6.3 Test Purpose

To verify that the mobile supports the “presentation style” with the command Select Item.

#### 27.22.4.9.6.4 Method of Test

##### 27.22.4.9.6.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

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

##### 27.22.4.9.6.4.2 Procedure

Expected Sequence 6.1 (SELECT ITEM, PRESENTATION AS A CHOICE OF NAVIGATION OPTIONS, successful)

| Step | Direction | MESSAGE / Action                                                                                                                        | Comments                              |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND                                                                                                                       |                                       |
| 2    | ME → SIM  | PENDING: SELECT ITEM 6.1.1                                                                                                              |                                       |
| 3    | SIM → ME  | FETCH                                                                                                                                   |                                       |
| 4    | ME → USER | PROACTIVE COMMAND:<br>SELECT ITEM 6.1.1<br>Display items of "Item 1", "Item 2"<br>and "Item 3" under the header of<br>"Toolkit Select". | Verify if presentation style appears. |
| 5    | USER → ME | Navigate in the items, then select<br>"Item 1".                                                                                         |                                       |
| 6    | ME → SIM  | TERMINAL RESPONSE: SELECT<br>ITEM 6.1.1                                                                                                 | [command performed successfully]      |

**Proactive SIM Command PROACTIVE COMMAND\_6-1-1: SELECT ITEM\_6.1.1**

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "03" (presentation as a choice of navigation options)

Device identities

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

Item

Identifier of item: 01  
 Text string of item: "Item 1"

Item

Identifier of item: 02  
 Text string of item: "Item 2"

Item

Identifier of item: 03  
 Text string of item: "Item 3"

Coding:

```

BER-TLV:  D0  34  81  03  01  24  03  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  01  49  74  65  6D  20  31
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33
    
```



**TERMINAL RESPONSE : SELECT ITEM 6.1.1**

Logically:

## Command details

Command number: 1  
Command type: SELECT ITEM  
Command qualifier: "03" (presentation as a choice of navigation options)

## Device identities

Source device: ME  
Destination device: SIM

## Result

General Result: Command performed successfully

## Item identifier

Identifier of item chosen: 01

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 24 | 03 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 90 | 01 | 01 |    |    |    |    |    |    |    |    |    |

Expected Sequence 6.2 (SELECT ITEM, PRESENTATION AS A CHOICE OF DATA VALUES, successful)

| Step | Direction | MESSAGE / Action                                                                                                                        | Comments                             |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND                                                                                                                       |                                      |
| 2    | ME → SIM  | PENDING: SELECT ITEM 6.2.1                                                                                                              |                                      |
| 3    | SIM → ME  | FETCH                                                                                                                                   |                                      |
| 4    | ME → USER | PROACTIVE COMMAND:<br>SELECT ITEM 6.2.1<br>Display items of "Item 1", "Item 2"<br>and "Item 3" under the header of<br>"Toolkit Select". | Verify if presentation style appears |
| 5    | USER → ME | Navigate in the items, then select<br>"Item 1".                                                                                         |                                      |
| 6    | ME → SIM  | TERMINAL RESPONSE: SELECT<br>ITEM 6.2.1                                                                                                 | [command performed successfully]     |

**Proactive SIM Command**PROACTIVE COMMAND-6.2.1: SELECT ITEM 6.2.1

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "01" (presentation as a choice of data values)

Device identities

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

Item

Identifier of item: 01  
 Text string of item: "Item 1"

Item

Identifier of item: 02  
 Text string of item: "Item 2"

Item

Identifier of item: 03  
 Text string of item: "Item 3"

Coding:

```

BER-TLV:  D0  34  81  03  01  24  01  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  01  49  74  65  6D  20  31
           8F  07  02  49  74  65  6D  20  32  8F  07  03
           49  74  65  6D  20  33
    
```

**TERMINAL RESPONSE: SELECT ITEM 6.2.1**

Logically:

## Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "01"(presentation as a choice of data values)

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Item identifier

Identifier of item chosen: 01

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 24 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 90 | 01 | 01 |    |    |    |    |    |    |    |    |    |

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

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

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

**27.22.4.9.7.2 Conformance Requirement**

Same as 27.22.4.9.1.2.

**27.22.4.9.7.3 Test Purpose**

To verify that the mobile supports the "soft keys" with the command Select Item.

**27.22.4.9.7.4 Method of Test****27.22.4.9.7.4.1 Initial Conditions**

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.9.7.4.2 Procedure

Expected Sequence 7.1 (SELECT ITEM, SELECTING USING SOFT KEYS PREFERRED, successful, successful)

| Step | Direction | MESSAGE / Action                                                          | Comments                                            |
|------|-----------|---------------------------------------------------------------------------|-----------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: SELECT ITEM 7.1.1                           |                                                     |
| 2    | ME → SIM  | FETCH                                                                     |                                                     |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>SELECT ITEM 7.1.1                                   |                                                     |
| 4    | ME → USER | Display items of "Item 1", "Item 2" under the header of "Toolkit Select". |                                                     |
| 5    | USER → ME | Navigate in the items, then select "Item 1".                              | Verify that we can choose an item through soft keys |
| 6    | ME → SIM  | TERMINAL RESPONSE: SELECT ITEM 7.1.1                                      | [command performed successfully]                    |

**Proactive SIM Command PROACTIVE COMMAND-7.1.1: SELECT ITEM 7.1.1**

Logically:

Command details

Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "04" (selection using soft keys preferred)

Device identities

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

Item

Identifier of item: 01  
 Text string of item: "Item 1"

Item

Identifier of item: 02  
 Text string of item: "Item 2"

Coding:

```

BER-TLV:  D0  2B  81  03  01  24  04  82  02  81  82  85
           0E  54  6F  6F  6C  6B  69  74  20  53  65  6C
           65  63  74  8F  07  01  49  74  65  6D  20  31
           8F  07  02  49  74  65  6D  20  32
    
```

**TERMINAL RESPONSE : SELECT ITEM 7.1.1**

Logically:

Command details  
 Command number: 1  
 Command type: SELECT ITEM  
 Command qualifier: "04" (selection using soft keys preferred)

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully

Item identifier  
 Identifier of item chosen: 01

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 24 | 04 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 90 | 01 | 01 |    |    |    |    |    |    |    |    |    |

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

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

**27.22.4.10.1.2 Conformance requirement**

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

TS GSM 11.14 [15] clause 6.1, clause 6.4.10 (Send Short Message), clause 6.6.9 (Send Short Message), clause 12.6 (Command Details), clause 12.7 (Device Identities), clause 12.2 (Alpha Identifier), clause 12.1 (Address), clause 12.13 (SMS-TPDU), clause 12.31 (Icon Identifier), clause 5.2 (Terminal Profile) 27.22.4.10.1.3 Test Purpose

To verify that the ME correctly formats and sends a short message to the network (System Simulator) as indicated in the SEND SHORT MESSAGE proactive SIM command, and returns a TERMINAL RESPONSE command to the SIM indicating the status of the transmission of the Short Message.

**27.22.4.10.1.4 Method of test****27.22.4.10.1.4.1 Initial Conditions**

The ME is connected to the system Simulator and the SIM Simulator.

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

## 27.22.4.10.1.4.2 Procedure

**Expected Sequence 1.1(SEND SHORT MESSAGE, packing not required, 8-bit data, successful)**

| Step | Direction    | MESSAGE / Action                                          | Comments                           |
|------|--------------|-----------------------------------------------------------|------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 1.1.1 |                                    |
| 2    | ME → SIM     | FETCH                                                     |                                    |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SHORT MESSAGE 1.1.1           | [packing not required, 8-bit data] |
| 4    | ME →<br>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<br>SHORT MESSAGE 1.1.1           | [Command performed successfully]   |

**PROACTIVE COMMAND :4.1.1: SEND SHORT MESSAGE 1.1.1**

Logically:

Command details  
 Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities  
 Source device: SIM  
 Destination device: Network  
 Alpha identifier: "Send SM"

Address  
 TON: International number  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "112233445566778"

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"

TP-PID Short message type 0  
 TP-DCS  
 Message coding 8-bit data  
 Message class class 0  
 TP-UDL 12  
 TP-UD "Test Message"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 37 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 07 | 53 | 65 | 6E | 64 | 20 | 53 | 4D | 86 | 09 | 91 | 11 |
|          | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 18 | 01 | 00 | 09 |
|          | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C | 54 | 65 | 73 |
|          | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |    |    |    |

**SMS-PP (SEND SHORT MESSAGE) Message 1.1**

Logically:

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"

TP-PID Short message type 0  
 TP-DCS  
 Message coding 8-bit data  
 Message class class 0

TP-UDL 12  
 TP-UD "Test Message"

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

**TERMINAL RESPONSE : SEND SHORT MESSAGE 1.1.1**

Logically:

Command details

Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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



**Expected Sequence 1.2 (SEND SHORT MESSAGE, packing required, 8-bit data, successful)**

| Step | Direction    | MESSAGE / Action                                          | Comments                         |
|------|--------------|-----------------------------------------------------------|----------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 1.2.1 |                                  |
| 2    | ME → SIM     | FETCH                                                     |                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SHORT MESSAGE 1.2.1           | [packing required, 8-bit data]   |
| 4    | ME →<br>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<br>SHORT MESSAGE 1.2.1           | [Command performed successfully] |

**PROACTIVE COMMAND :~~1.2.1~~: SEND SHORT MESSAGE 1.2.1**

Logically:

Command details

Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing required

Device identities

Source device: SIM  
 Destination device: Network  
 Alpha identifier: "Send SM"

Address

TON: International number  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "112233445566778"

SMS TPDU

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

TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 8-bit data  
 Message class class 0

TP-UDL 7

TP-UD "Send SM"

Coding:

```

BER-TLV:  D0  32  81  03  01  13  01  82  02  81  83  85
           07  53  65  6E  64  20  53  4D  86  09  91  11
           22  33  44  55  66  77  F8  8B  13  01  00  09
           91  10  32  54  76  F8  40  F4  07  53  65  6E
           64  20  53  4D
    
```

SMS-PP (SEND SHORT MESSAGE) Message 1.2

Logically:

|                |                                                  |
|----------------|--------------------------------------------------|
| SMS TPDU       |                                                  |
| TP-MTI         | SMS-SUBMIT                                       |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                          |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT      |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested                 |
| TP-MR          | "00"                                             |
| TP-DA          |                                                  |
| TON            | International number                             |
| NPI            | ISDN / telephone numbering plan                  |
| Address value  | "012345678"                                      |
| TP-PID         | Short message type 0                             |
| TP-DCS         |                                                  |
| Message coding | SMS default alphabet                             |
| Message class  | class 0                                          |
| TP-UDL         | 7                                                |
| TP-UD          | "Send SM"                                        |

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding: | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 07 |
|         | D3 | B2 | 9B | 0C | 9A | 36 | 01 |    |    |    |    |    |

**TERMINAL RESPONSE : SEND SHORT MESSAGE 1.2.1**

Logically:

|                     |                                |
|---------------------|--------------------------------|
| Command details     |                                |
| Command number:     | 1                              |
| Command type:       | SEND SHORT MESSAGE             |
| Command qualifier:  | packing required               |
| Device identities   |                                |
| Source device:      | ME                             |
| Destination device: | SIM                            |
| Result              |                                |
| General Result:     | Command performed successfully |

Coding:

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

**Expected Sequence 1.3 (SEND SHORT MESSAGE, packing not required, SMS default alphabet, successful)**

| Step | Direction    | MESSAGE / Action                                          | Comments                                     |
|------|--------------|-----------------------------------------------------------|----------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 1.3.1 |                                              |
| 2    | ME → SIM     | FETCH                                                     |                                              |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SHORT MESSAGE 1.3.1           | [packing not required, SMS default alphabet] |
| 4    | ME →<br>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<br>SHORT MESSAGE 1.3.1           | [Command performed successfully]             |

**PROACTIVE COMMAND :~~1.3.1~~: SEND SHORT MESSAGE 1.3.1**

Logically:

Command details

Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities

Source device: SIM  
 Destination device: Network

Alpha identifier: "Short Message"

Address

TON: International number  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "112233445566778"

SMS TPDU

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

TP-DA

TON International number  
 NPI ISDN / telephone numbering plan

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet  
 Message class class 0

TP-UDL 13

TP-UD "Short Message"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 3D | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0D | 53 | 68 | 6F | 72 | 74 | 20 | 4D | 65 | 73 | 73 | 61 |
|          | 67 | 65 | 86 | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 |
|          | F8 | 8B | 18 | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 |
|          | 40 | F0 | 0D | 53 | F4 | 5B | 4E | 07 | 35 | CB | F3 | 79 |
|          | F8 | 5C | 06 |    |    |    |    |    |    |    |    |    |

## SMS-PP (SEND SHORT MESSAGE) Message 1.3

Logically:

|                |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|
| SMS TPDU       |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-MTI         |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-RD          |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-VPF         |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-RP          |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-UDHI        |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-SRR         |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-MR          |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-DA          |    |    |    |    |    |    |    |    |    |    |    |    |
| TON            |    |    |    |    |    |    |    |    |    |    |    |    |
| NPI            |    |    |    |    |    |    |    |    |    |    |    |    |
| Address value  |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-PID         |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-DCS         |    |    |    |    |    |    |    |    |    |    |    |    |
| Message coding |    |    |    |    |    |    |    |    |    |    |    |    |
| Message class  |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-UDL         |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-UD          |    |    |    |    |    |    |    |    |    |    |    |    |
| Coding:        | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F0 | 0D |
|                | 53 | F4 | 5B | 4E | 07 | 35 | CB | F3 | 79 | F8 | 5C | 06 |

## TERMINAL RESPONSE : SEND SHORT MESSAGE 1.3.1

Logically:

|                     |                                |
|---------------------|--------------------------------|
| Command details     |                                |
| Command number:     | 1                              |
| Command type:       | SEND SHORT MESSAGE             |
| Command qualifier:  | packing not required           |
| Device identities   |                                |
| Source device:      | ME                             |
| Destination device: | SIM                            |
| Result              |                                |
| General Result:     | Command performed successfully |

Coding:

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

**Expected Sequence 1.4 (SEND SHORT MESSAGE, packing required, SMS default alphabet, message of 160 bytes, successful)**

| Step | Direction    | MESSAGE / Action                                                                                                                                                                                | Comments                                 |
|------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 1.4. 1                                                                                                                                      |                                          |
| 2    | ME → SIM     | FETCH                                                                                                                                                                                           |                                          |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SHORT MESSAGE 1.4.1                                                                                                                                                 | [packing required, SMS default alphabet] |
| 4    | ME →<br>USER | Display " The address data object<br>holds the<br>RP_Destination_Address "                                                                                                                      | [Alpha Identifier]                       |
| 5    | ME → SS      | Send SMS-PP "Two types are<br>defined: - A short message to be<br>sent to the network in an SMS-<br>SUBMIT message, or an SMS-<br>COMMAND message, where the<br>user data can be passed transp" | [message of 160 bytes]                   |
| 6    | SS → ME      | SMS RP-ACK                                                                                                                                                                                      |                                          |
| 7    | ME → SIM     | TERMINAL RESPONSE : SEND<br>SHORT MESSAGE 1.4.1                                                                                                                                                 | [Command performed successfully]         |

**PROACTIVE COMMAND :1.4.1: SEND SHORT MESSAGE 1.4.1**

Logically:

Command details

Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing required

Device identities

Source device: SIM  
 Destination device: Network

Alpha identifier: "The address data object holds the RP\_Destination\_Address"

Address

TON: International number  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "112233445566778"

SMS TPDU

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

TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet  
 Message class class 0

TP-UDL 160

TP-UD "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

BER-TLV: D0 81 FD 81 03 01 13 00 82 02 81 83  
 85 38 54 68 65 20 61 64 64 72 65 73

|    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 73 | 20 | 64 | 61 | 74 | 61 | 20 | 6F | 62 | 6A | 65 | 63 |
| 74 | 20 | 68 | 6F | 6C | 64 | 73 | 20 | 74 | 68 | 65 | 20 |
| 52 | 50 | 11 | 44 | 65 | 73 | 74 | 69 | 6E | 61 | 74 | 69 |
| 6F | 6E | 11 | 41 | 64 | 64 | 72 | 65 | 73 | 73 | 86 | 09 |
| 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 81 | AC |
| 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | A0 |
| 54 | 77 | 6F | 20 | 74 | 79 | 70 | 65 | 73 | 20 | 61 | 72 |
| 65 | 20 | 64 | 65 | 66 | 69 | 6E | 65 | 64 | 3A | 20 | 2D |
| 20 | 41 | 20 | 73 | 68 | 6F | 72 | 74 | 20 | 6D | 65 | 73 |
| 73 | 61 | 67 | 65 | 20 | 74 | 6F | 20 | 62 | 65 | 20 | 73 |
| 65 | 6E | 74 | 20 | 74 | 6F | 20 | 74 | 68 | 65 | 20 | 6E |
| 65 | 74 | 77 | 6F | 72 | 6B | 20 | 69 | 6E | 20 | 61 | 6E |
| 20 | 53 | 4D | 53 | 2D | 53 | 55 | 42 | 4D | 49 | 54 | 20 |
| 6D | 65 | 73 | 73 | 61 | 67 | 65 | 2C | 20 | 6F | 72 | 20 |
| 61 | 6E | 20 | 53 | 4D | 53 | 2D | 43 | 4F | 4D | 4D | 41 |
| 4E | 44 | 20 | 6D | 65 | 73 | 73 | 61 | 67 | 65 | 2C | 20 |
| 77 | 68 | 65 | 72 | 65 | 20 | 74 | 68 | 65 | 20 | 75 | 73 |
| 65 | 72 | 20 | 64 | 61 | 74 | 61 | 20 | 63 | 61 | 6E | 20 |
| 62 | 65 | 20 | 70 | 61 | 73 | 73 | 65 | 64 | 20 | 74 | 72 |
| 61 | 6E | 73 | 70 |    |    |    |    |    |    |    |    |

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

Logically:

|                |                                                                                                                                                                    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SMS TPDU       |                                                                                                                                                                    |
| TP-MTI         | SMS-SUBMIT                                                                                                                                                         |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM                                                                                                                   |
| TP-VPF         | TP-VP field not present                                                                                                                                            |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT                                                                                                                        |
| TP-UDHI        | The TP-UD field contains only the short message                                                                                                                    |
| TP-SRR         | A status report is not requested                                                                                                                                   |
| TP-MR          | "00"                                                                                                                                                               |
| TP-DA          |                                                                                                                                                                    |
| TON            | International number                                                                                                                                               |
| NPI            | ISDN / telephone numbering plan                                                                                                                                    |
| Address value  | "012345678"                                                                                                                                                        |
| TP-PID         | Short message type 0                                                                                                                                               |
| TP-DCS         |                                                                                                                                                                    |
| Message coding | SMS default alphabet                                                                                                                                               |
| Message class  | class 0                                                                                                                                                            |
| TP-UDL         | 160                                                                                                                                                                |
| TP-UD          | "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp" |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 98 | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F0 |
|          | A0 | D4 | FB | 1B | 44 | CF | C3 | CB | 73 | 50 | 58 | 5E |
|          | 06 | 91 | CB | E6 | B4 | BB | 4C | D6 | 81 | 5A | A0 | 20 |
|          | 68 | 8E | 7E | CB | E9 | A0 | 76 | 79 | 3E | 0F | 9F | CB |
|          | 20 | FA | 1B | 24 | 2E | 83 | E6 | 65 | 37 | 1D | 44 | 7F |
|          | 83 | E8 | E8 | 32 | C8 | 5D | A6 | DF | DF | F2 | 35 | 28 |
|          | ED | 06 | 85 | DD | A0 | 69 | 73 | DA | 9A | 56 | 85 | CD |
|          | 24 | 15 | D4 | 2E | CF | E7 | E1 | 73 | 99 | 05 | 7A | CB |
|          | 41 | 61 | 37 | 68 | DA | 9C | B6 | 86 | CF | 66 | 33 | E8 |
|          | 24 | 82 | DA | E5 | F9 | 3C | 7C | 2E | B3 | 40 | 77 | 74 |
|          | 59 | 5E | 06 | D1 | D1 | 65 | 50 | 7D | 5E | 96 | 83 | C8 |
|          | 61 | 7A | 18 | 34 | 0E | BB | 41 | E2 | 32 | 08 | 1E | 9E |
|          | CF | CB | 64 | 10 | 5D | 1E | 76 | CF | E1 |    |    |    |

**TERMINAL RESPONSE : SEND SHORT MESSAGE 1.4.1**

Logically:

Command details

Command number: 1  
Command type: SEND SHORT MESSAGE  
Command qualifier: packing not required

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

**Expected Sequence 1.5 (SEND SHORT MESSAGE, packing not required, SMS default alphabet, message of 160 bytes, successful)**

| Step | Direction    | MESSAGE / Action                                                                                                                                                                                | Comments                                     |
|------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 1.5.1                                                                                                                                       |                                              |
| 2    | ME → SIM     | FETCH                                                                                                                                                                                           |                                              |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SHORT MESSAGE 1.5.1                                                                                                                                                 | [packing not required, SMS default alphabet] |
| 4    | ME →<br>USER | Display " The address data object<br>holds the<br>RP_Destination_Address "                                                                                                                      | [Alpha Identifier]                           |
| 5    | ME → SS      | Send SMS-PP "Two types are<br>defined: - A short message to be<br>sent to the network in an SMS-<br>SUBMIT message, or an SMS-<br>COMMAND message, where the<br>user data can be passed transp" | [message of 160 bytes]                       |
| 6    | SS → ME      | SMS RP-ACK                                                                                                                                                                                      |                                              |
| 7    | ME → SIM     | TERMINAL RESPONSE : SEND<br>SHORT MESSAGE 1.5.1                                                                                                                                                 | [Command performed successfully]             |

**PROACTIVE COMMAND :1.5.1: SEND SHORT MESSAGE 1.5.1**

Logically:

Command details

Command number: 1  
Command type: SEND SHORT MESSAGE  
Command qualifier: packing not required

Device identities

Source device: SIM  
Destination device: Network

Alpha identifier: "The address data object holds the RP Destination Address"

Address

TON: International number  
NPI: ISDN / telephone numbering plan  
Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT  
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
TP-VPF TP-VP field not present  
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
TP-UDHI The TP-UD field contains only the short message  
TP-SRR A status report is not requested  
TP-MR "00"  
TP-DA  
TON International number  
NPI ISDN / telephone numbering plan  
Address value "012345678"  
TP-PID Short message type 0  
TP-DCS  
Message coding SMS default alphabet  
Message class class 0  
TP-UDL 160



TP-UD

"Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | E9 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 |
|          | 85 | 38 | 54 | 68 | 65 | 20 | 61 | 64 | 64 | 72 | 65 | 73 |
|          | 73 | 20 | 64 | 61 | 74 | 61 | 20 | 6F | 62 | 6A | 65 | 63 |
|          | 74 | 20 | 68 | 6F | 6C | 64 | 73 | 20 | 74 | 68 | 65 | 20 |
|          | 52 | 50 | 20 | 44 | 65 | 73 | 74 | 69 | 6E | 61 | 74 | 69 |
|          | 6F | 6E | 20 | 41 | 64 | 64 | 72 | 65 | 73 | 73 | 86 | 09 |
|          | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 81 | 98 |
|          | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F0 | A0 |
|          | D4 | FB | 1B | 44 | CF | C3 | CB | 73 | 50 | 58 | 5E | 06 |
|          | 91 | CB | E6 | B4 | BB | 4C | D6 | 81 | 5A | A0 | 20 | 68 |
|          | 8E | 7E | CB | E9 | A0 | 76 | 79 | 3E | 0F | 9F | CB | 20 |
|          | FA | 1B | 24 | 2E | 83 | E6 | 65 | 37 | 1D | 44 | 7F | 83 |
|          | E8 | E8 | 32 | C8 | 5D | A6 | DF | DF | F2 | 35 | 28 | ED |
|          | 06 | 85 | DD | A0 | 69 | 73 | DA | 9A | 56 | 85 | CD | 24 |
|          | 15 | D4 | 2E | CF | E7 | E1 | 73 | 99 | 05 | 7A | CB | 41 |
|          | 61 | 37 | 68 | DA | 9C | B6 | 86 | CF | 66 | 33 | E8 | 24 |
|          | 82 | DA | E5 | F9 | 3C | 7C | 2E | B3 | 40 | 77 | 74 | 59 |
|          | 5E | 06 | D1 | D1 | 65 | 50 | 7D | 5E | 96 | 83 | C8 | 61 |
|          | 7A | 18 | 34 | 0E | BB | 41 | E2 | 32 | 08 | 1E | 9E | CF |
|          | CB | 64 | 10 | 5D | 1E | 76 | CF | E1 |    |    |    |    |

SMS-PP (SEND SHORT MESSAGE) Message 1.5

Logically:

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 160  
 TP-UD "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding: | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F0 | A0 |
|         | D4 | FB | 1B | 44 | CF | C3 | CB | 73 | 50 | 58 | 5E | 06 |
|         | 91 | CB | E6 | B4 | BB | 4C | D6 | 81 | 5A | A0 | 20 | 68 |
|         | 8E | 7E | CB | E9 | A0 | 76 | 79 | 3E | 0F | 9F | CB | 20 |
|         | FA | 1B | 24 | 2E | 83 | E6 | 65 | 37 | 1D | 44 | 7F | 83 |
|         | E8 | E8 | 32 | C8 | 5D | A6 | DF | DF | F2 | 35 | 28 | ED |
|         | 06 | 85 | DD | A0 | 69 | 73 | DA | 9A | 56 | 85 | CD | 24 |
|         | 15 | D4 | 2E | CF | E7 | E1 | 73 | 99 | 05 | 7A | CB | 41 |
|         | 61 | 37 | 68 | DA | 9C | B6 | 86 | CF | 66 | 33 | E8 | 24 |
|         | 82 | DA | E5 | F9 | 3C | 7C | 2E | B3 | 40 | 77 | 74 | 59 |
|         | 5E | 06 | D1 | D1 | 65 | 50 | 7D | 5E | 96 | 83 | C8 | 61 |
|         | 7A | 18 | 34 | 0E | BB | 41 | E2 | 32 | 08 | 1E | 9E | CF |
|         | CB | 64 | 10 | 5D | 1E | 76 | CF | E1 |    |    |    |    |

**TERMINAL RESPONSE : SEND SHORT MESSAGE 1.5.1**

Logically:

Command details  
 Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

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

**Expected Sequence 1.6 (SEND SHORT MESSAGE, alpha identifier 160 bytes long, SMS default alphabet, successful)**

| Step | Direction    | MESSAGE / Action                                                                                                                                                                                                                                                      | Comments                                     |
|------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 1.6.1                                                                                                                                                                                                             |                                              |
| 2    | ME → SIM     | FETCH                                                                                                                                                                                                                                                                 |                                              |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SHORT MESSAGE 1.6.1                                                                                                                                                                                                                       | [packing not required, SMS default alphabet] |
| 4    | ME →<br>USER | Display "Two types are defined: -<br>A short message to be sent to the<br>network in an SMS-SUBMIT<br>message, or an SMS-COMMAND<br>message, where the user data can<br>be passed transparently; - A short<br>message to be sent to the network<br>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<br>SHORT MESSAGE 1.6.1                                                                                                                                                                                                                       | [Command performed successfully]             |

**PROACTIVE COMMAND :~~1.6.1~~: SEND SHORT MESSAGE 1.6.1**

Logically:

Command details

Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities

Source device: SIM  
 Destination device: Network

Alpha identifier:

"Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transparently; - A short message to be sent to the network in an SMS-SUBMIT "

SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
     TON International number  
     NPI ISDN / telephone numbering plan  
     Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
     Message coding SMS default alphabet  
     Message class class 0  
 TP-UDL 1  
 TP-UD " "

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | FD | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 |
|          | 85 | 81 | E6 | 54 | 77 | 6F | 20 | 74 | 79 | 70 | 65 | 73 |
|          | 20 | 61 | 72 | 65 | 20 | 64 | 65 | 66 | 69 | 6E | 65 | 64 |

|    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 3A | 20 | 2D | 20 | 41 | 20 | 73 | 68 | 6F | 72 | 74 | 20 |
| 6D | 65 | 73 | 73 | 61 | 67 | 65 | 20 | 74 | 6F | 20 | 62 |
| 65 | 20 | 73 | 65 | 6E | 74 | 20 | 74 | 6F | 20 | 74 | 68 |
| 65 | 20 | 6E | 65 | 74 | 77 | 6F | 72 | 6B | 20 | 69 | 6E |
| 20 | 61 | 6E | 20 | 53 | 4D | 53 | 2D | 53 | 55 | 42 | 4D |
| 49 | 54 | 20 | 6D | 65 | 73 | 73 | 61 | 67 | 65 | 2C | 20 |
| 6F | 72 | 20 | 61 | 6E | 20 | 53 | 4D | 53 | 2D | 43 | 4F |
| 4D | 4D | 41 | 4E | 44 | 20 | 6D | 65 | 73 | 73 | 61 | 67 |
| 65 | 2C | 20 | 77 | 68 | 65 | 72 | 65 | 20 | 74 | 68 | 65 |
| 20 | 75 | 73 | 65 | 72 | 20 | 64 | 61 | 74 | 61 | 20 | 63 |
| 61 | 6E | 20 | 62 | 65 | 20 | 70 | 61 | 73 | 73 | 65 | 64 |
| 20 | 74 | 72 | 61 | 6E | 73 | 70 | 61 | 72 | 65 | 6E | 74 |
| 6C | 79 | 3B | 20 | 2D | 20 | 41 | 20 | 73 | 68 | 6F | 72 |
| 74 | 20 | 6D | 65 | 73 | 73 | 61 | 67 | 65 | 20 | 74 | 6F |
| 20 | 62 | 65 | 20 | 73 | 65 | 6E | 74 | 20 | 74 | 6F | 20 |
| 74 | 68 | 65 | 20 | 6E | 65 | 74 | 77 | 6F | 72 | 6B | 20 |
| 69 | 6E | 20 | 61 | 6E | 20 | 53 | 4D | 53 | 2D | 53 | 55 |
| 42 | 4D | 49 | 54 | 20 | 8B | 09 | 01 | 00 | 09 | 91 | 10 |
| 40 | F0 | 01 | 20 |    |    |    |    |    |    |    |    |

SMS-PP (SEND SHORT MESSAGE) Message 1.6

Logically:

|                |                                                  |
|----------------|--------------------------------------------------|
| SMS TPDU       |                                                  |
| TP-MTI         | SMS-SUBMIT                                       |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                          |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT      |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested                 |
| TP-MR          | "00"                                             |
| TP-DA          |                                                  |
| TON            | International number                             |
| NPI            | ISDN / telephone numbering plan                  |
| Address value  | "01"                                             |
| TP-PID         | Short message type 0                             |
| TP-DCS         |                                                  |
| Message coding | SMS default alphabet                             |
| Message class  | class 0                                          |
| TP-UDL         | 1                                                |
| TP-UD          | " "                                              |

Coding: 01 00 09 91 10 40 F0 01 20

TERMINAL RESPONSE : SEND SHORT MESSAGE 1.6.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

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

**Expected Sequence 1.7(SEND SHORT MESSAGE, alpha identifier length '00', packing not required, 8-bit data, successful)**

| Step | Direction | MESSAGE / Action                                          | Comments                           |
|------|-----------|-----------------------------------------------------------|------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 1.7.1 |                                    |
| 2    | ME → SIM  | FETCH                                                     |                                    |
| 3    | SIM → ME  | PROACTIVE COMMAND : SEND<br>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<br>SHORT MESSAGE 1.7.1           | [Command performed successfully]   |

**PROACTIVE COMMAND :1.7.1: SEND SHORT MESSAGE 1.7.1**

Logically:

Command details  
 Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities  
 Source device: SIM  
 Destination device: Network

Alpha identifier:  
 Address  
 TON: International number  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "112233445566778"

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"

TP-PID Short message type 0  
 TP-DCS  
 Message coding 8-bit data  
 Message class class 0  
 TP-UDL 12  
 TP-UD "Test Message"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 37 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 00 | 86 | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F8 |
|          | 8B | 18 | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 |
|          | F4 | 0C | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 |
|          | 67 | 65 |    |    |    |    |    |    |    |    |    |    |

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

Logically:

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"

TP-PID Short message type 0  
 TP-DCS  
 Message coding 8-bit data  
 Message class class 0

```

TP-UDL          12
TP-UD           "Test Message"

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

**TERMINAL RESPONSE : SEND SHORT MESSAGE 1.7.1**

Logically:

```

Command details
  Command number:      1
  Command type:       SEND SHORT MESSAGE
  Command qualifier:  packing not required
Device identities
  Source device:      ME
  Destination device: SIM
Result
  General Result:     Command performed successfully
    
```

Coding:

```

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

**Expected Sequence 1.8 (SEND SHORT MESSAGE, packing not required, 8-bit data, no alpha identifier, successful)**

| Step | Direction    | MESSAGE / Action                                             | Comments                           |
|------|--------------|--------------------------------------------------------------|------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 1.8.1    |                                    |
| 2    | ME → SIM     | FETCH                                                        |                                    |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SHORT MESSAGE 1.8.1              | [packing not required, 8-bit data] |
| 4    | ME →<br>USER | May give information to user<br>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<br>SHORT MESSAGE 1.8.1              | [Command performed successfully]   |

**PROACTIVE COMMAND :1.8.1: SEND SHORT MESSAGE 1.8.1**

Logically:

Command details  
 Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities  
 Source device: SIM  
 Destination device: Network

Address  
 TON: International number  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "112233445566778"

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"

TP-PID Short message type 0  
 TP-DCS  
 Message coding 8-bit data  
 Message class class 0  
 TP-UDL 12  
 TP-UD "Test Message"

Coding:

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

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

Logically:

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"

TP-PID Short message type 0  
 TP-DCS  
 Message coding 8-bit data  
 Message class class 0  
 TP-UDL 12



|         |                |    |    |    |    |    |    |    |    |    |    |    |
|---------|----------------|----|----|----|----|----|----|----|----|----|----|----|
| TP-UD   | "Test Message" |    |    |    |    |    |    |    |    |    |    |    |
| Coding: | 01             | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C |
|         | 54             | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |

### TERMINAL RESPONSE : SEND SHORT MESSAGE 1.8.1

Logically:

Command details

Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

#### 27.22.4.10.1.5 Test Requirement

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

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

##### 27.22.4.10.2.1 Definition and applicability

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

Additionally this test is only applicable to ME that support USC2 coding format facility.

##### 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<br>PENDING: SEND SHORT<br>MESSAGE 2.1.1 |                                     |
| 2    | ME → SIM     | FETCH                                                     |                                     |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SHORT MESSAGE 2.1.1           | [packing not required, 16-bit data] |
| 4    | ME →<br>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<br>SHORT MESSAGE 2.1.1           | [Command performed successfully]    |

**PROACTIVE COMMAND :~~2.1.1~~: SEND SHORT MESSAGE : 2.1.1**

Logically:

Command details

Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities

Source device: SIM  
 Destination device: Network

Alpha identifier: "Send SM"

Address

TON: International number  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding 16-bit data  
 Message class class 0  
 TP-UDL 24  
 TP-UD ЗДРАВСТВУЙТЕ "

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 07 | 53 | 65 | 6E | 64 | 20 | 53 | 4D | 86 | 09 | 91 | 11 |
|          | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 18 | 01 | 00 | 09 |
|          | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 18 | 04 | 17 | 04 |
|          | 14 | 04 | 20 | 04 | 10 | 04 | 12 | 04 | 21 | 04 | 22 | 04 |
|          | 12 | 04 | 23 | 04 | 19 | 04 | 22 | 04 | 15 |    |    |    |

SMS-PP (SEND SHORT MESSAGE) Message 2.1

Logically:

|                |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|
| SMS TPDU       |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-MTI         |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-RD          |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-VPF         |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-RP          |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-UDHI        |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-SRR         |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-MR          |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-DA          |    |    |    |    |    |    |    |    |    |    |    |    |
| TON            |    |    |    |    |    |    |    |    |    |    |    |    |
| NPI            |    |    |    |    |    |    |    |    |    |    |    |    |
| Address value  |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-PID         |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-DCS         |    |    |    |    |    |    |    |    |    |    |    |    |
| Message coding |    |    |    |    |    |    |    |    |    |    |    |    |
| Message class  |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-UDL         |    |    |    |    |    |    |    |    |    |    |    |    |
| TP-UD          |    |    |    |    |    |    |    |    |    |    |    |    |
| Coding:        | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 18 |
|                | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 | 04 | 21 |
|                | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 | 04 | 15 |

**TERMINAL RESPONSE : SEND SHORT MESSAGE 2.2.1**

Logically:

|                     |                                |
|---------------------|--------------------------------|
| Command details     |                                |
| Command number:     | 1                              |
| Command type:       | SEND SHORT MESSAGE             |
| Command qualifier:  | packing not required           |
| Device identities   |                                |
| Source device:      | ME                             |
| Destination device: | SIM                            |
| Result              |                                |
| General Result:     | Command performed successfully |

Coding:

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

27.22.4.10.2.5 Test Requirement

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

27.22.4.10.3 SEND SHORT MESSAGE (icon support)

27.22.4.10.3.1 Definition and applicability

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

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

27.22.4.10.3.2 Conformance requirement

27.22.4.10.3.3 Test Purpose

To verify that the ME correctly formats and sends a short message to the network (System Simulator) as indicated in the SEND SHORT MESSAGE proactive SIM command, and returns a TERMINAL RESPONSE command to the SIM indicating the status of the transmission of the Short Message.

27.22.4.10.3.4 Method of test

27.22.4.10.3.4.1 Initial Conditions

See Annex C

27.22.4.10.3.4.2 Procedure

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

| Step | Direction    | MESSAGE / Action                                          | Comments                           |
|------|--------------|-----------------------------------------------------------|------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 3.1.1 |                                    |
| 2    | ME → SIM     | FETCH                                                     |                                    |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SHORT MESSAGE 3.1.1           | [packing not required, 8-bit data] |
| 4    | ME →<br>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<br>SHORT MESSAGE 3.1.1           | [Command performed successfully]   |

**PROACTIVE COMMAND :3.1.1: SEND SHORT MESSAGE 3.1.1**

Logically:

Command details  
 Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities  
 Source device: SIM  
 Destination device: Network  
 Address  
 TON: International number  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "112233445566778"

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

Icon Identifier  
 Icon Qualifier self-explanatory  
 Icon Identifier 1 (number of record in EF IMG)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 32 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 86 |
|          | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 18 |
|          | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F4 | 40 | F4 | =C |
|          | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |
|          | 9E | 02 | 00 | 01 |    |    |    |    |    |    |    |    |

**SMS-PP (SEND SHORT MESSAGE) Message 3.1**

Logically:

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

Message coding            8-bit data  
 Message class            class 0  
 TP-UDL                    12  
 TP-UD                    "Test Message"

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

**TERMINAL RESPONSE : SEND SHORT MESSAGE 3.1.1**

Logically:

Command details  
 Command number:            1  
 Command type:              SEND SHORT MESSAGE  
 Command qualifier:        packing not required

Device identities  
 Source device:              ME  
 Destination device:        SIM

Result  
 General Result:             Command performed successfully

Coding:

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

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

| Step | Direction    | MESSAGE / Action                                                                                           | Comments                                                                                                               |
|------|--------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 3.2.1                                                  |                                                                                                                        |
| 2    | ME → SIM     | FETCH                                                                                                      |                                                                                                                        |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SHORT MESSAGE 3.2.1                                                            | [packing not required, 8-bit data]                                                                                     |
| 4    | ME →<br>USER | display BASIC-ICON and "Send<br>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<br>SHORT MESSAGE 3.2.1a<br>OR<br>TERMINAL RESPONSE : SEND<br>SHORT MESSAGE 3.2.1b | [Command performed successfully]<br><br>[Command performed successfully, but<br>requested icon could not be displayed] |

**PROACTIVE COMMAND :3.2.1: SEND SHORT MESSAGE 3.2.1**

Logically:

Command details  
 Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities  
 Source device: SIM  
 Destination device: Network

Alpha Identifier  
 Address "Send SM"  
 TON: International number  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "112233445566778"

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"

TP-PID Short message type 0  
 TP-DCS  
 Message coding 8bit-data  
 Message class class 0  
 TP-UDL 12  
 TP-UD " Test Message"

Icon Identifier  
 Icon Qualifier non-self-explanatory  
 Icon Identifier 1 (number of record in EF IMG)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 3B | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 07 | 53 | 65 | 6E | 64 | 20 | 53 | 4D | 86 | 09 | 91 | 11 |
|          | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 18 | 01 | 00 | 09 |
|          | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C | 54 | 65 | 73 |
|          | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 | 1E | 02 | 01 |
|          | 01 |    |    |    |    |    |    |    |    |    |    |    |

**SMS-PP (SEND SHORT MESSAGE) Message 3.2**

Logically:

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI ISDN / telephone numbering plan  
 Address value "012345678"

TP-PID Short message type 0

|                |    |    |    |    |    |    |    |    |    |    |    |    |  |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|--|
| TP-DCS         |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Message coding |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Message class  |    |    |    |    |    |    |    |    |    |    |    |    |  |
| TP-UDL         |    |    |    |    |    |    |    |    |    |    |    |    |  |
| TP-UD          |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Coding:        | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C |  |
|                | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |  |

**TERMINAL RESPONSE : SEND SHORT MESSAGE 3.2.1a**

Logically:

|                     |                                |
|---------------------|--------------------------------|
| Command details     |                                |
| Command number:     | 1                              |
| Command type:       | SEND SHORT MESSAGE             |
| Command qualifier:  | packing not required           |
| Device identities   |                                |
| Source device:      | ME                             |
| Destination device: | SIM                            |
| Result              |                                |
| General Result:     | Command performed successfully |

Coding:

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

**TERMINAL RESPONSE : SEND SHORT MESSAGE 3.2.1b**

Logically:

|                     |                                                                            |
|---------------------|----------------------------------------------------------------------------|
| Command details     |                                                                            |
| Command number:     | 1                                                                          |
| Command type:       | SEND SHORT MESSAGE                                                         |
| Command qualifier:  | packing not required                                                       |
| Device identities   |                                                                            |
| Source device:      | ME                                                                         |
| Destination device: | SIM                                                                        |
| Result              |                                                                            |
| General Result:     | Command performed successfully, but requested icon could not be displayed; |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**27.22.4.10.3.5 Test Requirement**

The ME shall operate in the manner defined in expected sequences



## 27.22.4.11 SEND SS

### 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<br>PENDING: SEND SS 1.1.1 |              |
| 2    | ME → SIM     | FETCH                                       |              |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SS 1.1.1        |              |
| 4    | ME →<br>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<br>SS 1.1.1        |              |

**PROACTIVE COMMAND 1.1.1: SEND SS 1.1.1**

Logically:

## Command details

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

## Device identities

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

## SS String

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

Coding:

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

## SS REQUEST 1.1

Logically: Register SS Operation

## Sequence

Sequence Tag  
 Sequence Length  
 SS Code  
 SS Code Tag  
 SS Code Length  
 SS Code Value Call Forwarded Unconditionally  
 Forwarded To Number  
 BCD Encoded Number  
 Parameter Tag Octet String, Forwarded To Number  
 Length  
 TON International  
 NPI ISDN / telephone numbering plan  
 Digits 01234567890123456789  
 Version Indicator

Coding:

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

**TERMINAL RESPONSE : SEND SS 1.1.1**

Logically:

```

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

Coding:

```

BER-TLV:  81  03  01  11  00  82  02  82  81  03  01
          00  04  0F  30  0D  84  0B  91  10  32  54
          76  10  32  54  76  98
    
```

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

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

**SS RETURN RESULT 1.2**

Logically:

Forwarding Info

SS Code  
 SS Code Tag  
 SS Code Length  
 Sequence  
   Sequence Tag  
   Sequence Length  
   SS Status  
   Forwarded To Number  
   BCD Encoded Number  
   Parameter Tag  
     Length  
     TON  
     NPI  
     Digits  
   Version Indicator  
 Error Tag  
 Error Length  
 Error

Octet String, Forwarded To Number  
  
 International  
 ISDN / telephone numbering plan  
 01234567890123456789

Return Result Problem

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 04 | 12 | 30 | 0D | 84 | 0B | 91 | 10 | 32 | 54 | 76 | 98 |
|         | 10 | 32 | 54 | 76 | 98 | 82 | 01 | 00 |    |    |    |    |

**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: SS Code  
     Parameters: SS Return Result

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 01 |
|          | 00 | 04 | 12 | 30 | 0D | 84 | 0B | 91 | 10 | 32 | 54 |
|          | 76 | 98 | 10 | 32 | 54 | 76 | 98 | 82 | 01 | 00 |    |

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                 |                                               |
| 2    | ME → SIM  | PENDING: SEND SS 1.1.1            |                                               |
| 3    | SIM → ME  | FETCH                             |                                               |
| 4    | SIM → ME  | PROACTIVE COMMAND : SEND SS 1.1.1 |                                               |
| 5    | ME → USER | Display "Call Forward"            |                                               |
| 6    | ME → SS   | SS REQUEST 1.1                    |                                               |
| 7    | SS → ME   | SS RETURN RESULT 1.3.             | [Network currently unable to process command] |
| 8    | ME → SIM  | TERMINAL RESPONSE : SEND SS 1.3.1 |                                               |

SS RETURN RESULT 1.3

Logically:

Forwarding Info

SS Code

SS Code Tag

SS Code Length

Sequence

Sequence Tag

Sequence Length

SS Status

Forwarded To Number

BCD Encoded Number

Parameter Tag

Octet String, Forwarded To Number

Length

TON

International

NPI

ISDN / telephone numbering plan

Digits

01234567890123456789

Version Indicator

Error Tag

Return Result Problem

Error Length

Error

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 04 | 12 | 30 | 0D | 84 | 0B | 91 | 10 | 32 | 54 | 76 | 98 |
|         | 10 | 32 | 54 | 76 | 98 | 80 | 01 | 22 |    |    |    |    |

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: SS Code

Parameters: SS Return Result

Coding:

```

BER-TLV:  81  03  01  11  00  82  02  82  81  03  01
          21  04  12  30  0D  84  0B  91  10  32  54
          76  98  10  32  54  76  98  80  01  22
    
```

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                                           | [Successful] |
| 2    | ME → SIM  | PENDING: SEND SS 1.4.1                                      |              |
| 3    | SIM → ME  | FETCH                                                       |              |
| 4    | ME → USER | PROACTIVE COMMAND : SEND SS 1.4.1<br>Display "Call Forward" |              |
| 5    | ME → SS   | SS REQUEST 1.4                                              |              |
| 6    | SS → ME   | SS RETURN RESULT 1.4                                        |              |
| 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:

Register SS Operation  
 Sequence  
     Sequence Tag  
     Sequence Length  
 SS Code  
     SS Code Tag  
     SS Code Length  
     SS Code Value                   Call Forwarded Unconditionally  
     Forwarded To Number  
     BCD Encoded Number  
     Parameter Tag                   Octet String, Forwarded To Number  
     Length  
     TON                               International  
     NPI                               ISDN / telephone numbering plan  
     Digits                            01234567890123456789012345678901234567  
     Version Indicator

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 30 | 19 | 04 | 01 | 21 | 84 | 14 | 91 | 10 | 32 | 54 | 76 |
|         | 98 | 10 | 32 | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 | 10 |
|         | 32 | 54 | 76 |    |    |    |    |    |    |    |    |    |

SS RETURN RESULT 1.4

Logically:

Forwarding Info  
 SS Code  
     SS Code Tag  
     SS Code Length  
 Sequence  
     Sequence Tag  
     Sequence Length  
     SS Status  
     Forwarded To Number  
     BCD Encoded Number  
     Parameter Tag                   Octet String, Forwarded To Number  
     Length  
     TON                               International  
     NPI                               ISDN / telephone numbering plan  
     Digits                            01234567890123456789012345678901234567  
     Version Indicator

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 04 | 18 | 30 | 16 | 84 | 14 | 91 | 10 | 32 | 54 | 76 | 98 |
|         | 10 | 32 | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 | 10 | 32 |
|         | 32 | 54 | 76 |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SEND SS 1.4.1**

Logically:

```

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

Coding:

```

BER-TLV:  81  03  01  11  00  82  02  82  81  03  01
          00  04  18  30  16  84  14  91  10  32  54
          76  98  10  32  32  54  76  98  10  32  54
          76  98  10  32  32  54  76
    
```

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

| Step | Direction    | MESSAGE / Action                                                                                                                                                                                                                                                           | Comments     |
|------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SS 1.5.1                                                                                                                                                                                                                                |              |
| 2    | ME → SIM     | FETCH                                                                                                                                                                                                                                                                      |              |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SS 1.5.1                                                                                                                                                                                                                                       |              |
| 4    | ME →<br>USER | Display "Even if the Fixed Dialling<br>Number service is enabled, the<br>supplementary service control<br>string included in the SEND SS<br>proactive command shall not be<br>checked against those of the FDN<br>list. Upon receiving this command,<br>the ME shall deci" |              |
| 4    | ME → SS      | SS REQUEST 1.5                                                                                                                                                                                                                                                             | [Successful] |
| 5    | SS → ME      | SS RETURN RESULT 1.5                                                                                                                                                                                                                                                       |              |
| 6    | ME → SIM     | TERMINAL RESPONSE : SEND<br>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:

|                       |                                   |
|-----------------------|-----------------------------------|
| Register SS Operation |                                   |
| Sequence              |                                   |
| Sequence Tag          |                                   |
| Sequence Length       |                                   |
| SS Code               |                                   |
| SS Code Tag           |                                   |
| SS Code Length        |                                   |
| SS Code Value         | Call Forwarded Unconditionally    |
| Forwarded To Number   |                                   |
| BCD Encoded Number    |                                   |
| Parameter Tag         | Octet String, Forwarded To Number |
| Length                |                                   |
| TON                   | International                     |
| NPI                   | ISDN / telephone numbering plan   |
| Digits                | 31                                |
| Version Indicator     |                                   |

Coding:

BER-TLV    30    07    04    01    21    84    02    91    13

SS RETURN RESULT 1.5

Logically:

|                     |                                   |
|---------------------|-----------------------------------|
| Forwarding Info     |                                   |
| SS Code             |                                   |
| SS Code Tag         |                                   |
| SS Code Length      |                                   |
| Sequence            |                                   |
| Sequence Tag        |                                   |
| Sequence Length     |                                   |
| SS Status           |                                   |
| Forwarded To Number |                                   |
| BCD Encoded Number  |                                   |
| Parameter Tag       | Octet String, Forwarded To Number |
| Length              |                                   |
| TON                 | International                     |
| NPI                 | ISDN / telephone numbering plan   |
| Digits              | 31                                |
| Version Indicator   |                                   |

Coding:

BER-TLV    04    06    30    04    84    02    91    13

**TERMINAL RESPONSE : SEND SS 1.5.1**

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## Additional information

Operation Code: SS Code  
 Parameters: SS Return Result

Coding:

BER-TLV: 81 03 01 11 00 82 02 82 81 03 01  
 00 04 06 30 04 84 02 91 13

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<br>PENDING: SEND SS 1.6.1                                                        |              |
| 2    | ME → SIM  | FETCH                                                                                              |              |
| 3    | SIM → ME  | PROACTIVE COMMAND : SEND<br>SS 1.6.11                                                              |              |
| 4    | ME        | Should not give any information to<br>the user on the fact that the ME is<br>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<br>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:

## Register SS Operation

## Sequence

Sequence Tag  
 Sequence Length

## SS Code

SS Code Tag  
 SS Code Length  
 SS Code Value Call Forwarded Unconditionally

Forwarded To Number  
 BCD Encoded Number

Parameter Tag Octet String, Forwarded To Number  
 Length

TON International  
 NPI ISDN / telephone numbering plan  
 Digits 01234567890123456789

Version Indicator

## Coding:

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

**SS RETURN RESULT 1.1**

## Logically:

Forwarding Info

SS Code  
 SS Code Tag  
 SS Code Length  
 Sequence  
   Sequence Tag  
   Sequence Length  
   SS Status  
   Forwarded To Number  
   BCD Encoded Number  
   Parameter Tag                    Octet String, Forwarded To Number  
     Length  
     TON                            International  
     NPI                            ISDN / telephone numbering plan  
     Digits                         01234567890123456789  
   Version Indicator

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 04 | 0F | 30 | 0D | 84 | 0B | 91 | 10 | 32 | 54 | 76 | 98 |
|         | 10 | 32 | 54 | 76 | 98 |    |    |    |    |    |    |    |

**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:

|                 |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>BER-TLV:</b> | <b>81</b> | <b>03</b> | <b>01</b> | <b>11</b> | <b>00</b> | <b>82</b> | <b>02</b> | <b>82</b> | <b>81</b> | <b>03</b> | <b>01</b> |
|                 | <b>00</b> | 04        | 0F        | 30        | 0D        | 84        | 0B        | 91        | 10        | 32        | 54        |
|                 | 76        | 98        | 10        | 32        | 54        | 76        | 98        |           |           |           |           |

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.

27.22.4.11.2.2 Conformance requirement

27.22.4.11.2.3 Test Purpose

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

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

27.22.4.11.2.4 Method of test

27.22.4.11.2.4.1 Initial Conditions

The ME is connected to the System Simulator and the SIM Simulator.

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.

27.22.4.11.2.4.2 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<br>PENDING: SEND SS 2.1.1                                              |                                                                                                            |
| 2    | ME → SIM     | FETCH                                                                                    |                                                                                                            |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SS 2.1.1                                                     | [BASIC-ICON, self-explanatory]                                                                             |
| 4    | ME →<br>USER | Display BASIC ICON<br>or<br>May give information to user<br>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<br>SS 2.1.1a<br>or<br>TERMINAL RESPONSE : SEND<br>SS 2.1.1b     | [Command performed successfully]<br>or<br>[Command performed but requested icon<br>could not be displayed] |

**PROACTIVE COMMAND : SEND SS 2.1.1**

## Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Network

## SS String

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

## Icon Identifier:

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

## Coding:

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

**SS REQUEST 2.1**

## Logically:

## Register SS Operation

## Sequence

Sequence Tag  
 Sequence Length

## SS Code

SS Code Tag  
 SS Code Length  
 SS Code Value Call Forwarded Unconditionally

Forwarded To Number

BCD Encoded Number

Parameter Tag Octet String, Forwarded To Number

Length

TON International

NPI ISDN / telephone numbering plan

Digits 01234567890123456789

Version Indicator

## Coding:

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

**SS RETURN RESULT 2.1**

## Logically:

Forwarding Info

SS Code  
 SS Code Tag  
 SS Code Length  
 Sequence  
   Sequence Tag  
   Sequence Length  
   SS Status  
   Forwarded To Number  
   BCD Encoded Number  
   Parameter Tag           Octet String, Forwarded To Number  
     Length  
     TON                   International  
     NPI                   ISDN / telephone numbering plan  
     Digits                 01234567890123456789  
   Version Indicator

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 04 | 0F | 30 | 0D | 84 | 0B | 91 | 10 | 32 | 54 | 76 | 98 |
|         | 10 | 32 | 54 | 76 | 98 |    |    |    |    |    |    |    |

**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:         SS Code  
     Parameters:             SS Return Result

Coding:

|                 |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>BER-TLV:</b> | <b>81</b> | <b>03</b> | <b>01</b> | <b>11</b> | <b>00</b> | <b>82</b> | <b>02</b> | <b>82</b> | <b>81</b> | <b>03</b> | <b>01</b> |
|                 | <b>00</b> | 04        | 0F        | 30        | 0D        | 84        | 0B        | 91        | 10        | 32        | 54        |
|                 | 76        | 98        | 10        | 32        | 54        | 76        | 98        |           |           |           |           |





**PROACTIVE COMMAND : SEND SS 2.2.1**

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Network

## SS String

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

## Icon Identifier:

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

Coding:

```

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

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

| Step | Direction    | MESSAGE / Action                                                                     | Comments                                                                                                   |
|------|--------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND SS 2.3.1                                          |                                                                                                            |
| 2    | ME → SIM     | FETCH                                                                                |                                                                                                            |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>SS 2.3.1                                                 | [BASIC-ICON, non self-explanatory]                                                                         |
| 4    | ME →<br>USER | Display "Basic Icon" and BASIC-<br>ICON<br>Or<br>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<br>SS 2.1.1a<br>or<br>TERMINAL RESPONSE : SEND<br>SS 2.1.1b | [Command performed successfully]<br>or<br>[Command performed but requested icon<br>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<br>PENDING: SEND SS 2.4.1 |                                     |
| 2    | ME → SIM  | FETCH                                       |                                     |
| 3    | SIM → ME  | PROACTIVE COMMAND : SEND<br>SS 2.4.1        | [BASIC-ICON, non self-explanatory]  |
| 4    | ME → SIM  | TERMINAL RESPONSE : SEND<br>SS 2.4.1        | [Command data not understood by ME] |

**PROACTIVE COMMAND : SEND SS 2.4.1**

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Network

## SS String

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

## Icon Identifier

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

Coding:

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

**TERMINAL RESPONSE : SEND SS 2.4.1**

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command data not understood by ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 32 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**27.22.4.11.2.5 Test Requirement**

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

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

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

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

27.22.4.11.2.2 Conformance requirement

27.22.4.11.2.3 Test Purpose

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

27.22.4.11.2.4 Method of test

27.22.4.11.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

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

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

27.22.4.11.2.4.2 Procedure

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

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

### PROACTIVE ~~COMMAND:COMMAND~~: SEND SS 3.1.1

Logically:

Command details

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

Device identities

Source device: SIM  
Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)  
Text: “ЗДРАВСТВУЙТЕ”

SS String

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

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 34 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 19 | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 |
|          | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 |
|          | 04 | 15 | 89 | 0E | 91 | AA | 12 | 0A | 21 | 43 | 65 | 87 |
|          | 09 | 21 | 43 | 65 | 87 | B9 |    |    |    |    |    |    |

SS REQUEST 3.1

Logically:

- Register SS Operation
  - Sequence
    - Sequence Tag
    - Sequence Length
  - SS Code
    - SS Code Tag
    - SS Code Length
    - SS Code Value
  - Forwarded To Number
  - BCD Encoded Number
  - Parameter Tag
  - Length
  - TON
  - NPI
  - Digits
  - Version Indicator
- Call Forwarded Unconditionally
- Octet String, Forwarded To Number
- International  
ISDN / telephone numbering plan  
01234567890123456789

Coding:

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

SS RETURN RESULT 3.1

Logically:

- Forwarding Info
  - SS Code
    - SS Code Tag
    - SS Code Length
  - Sequence
    - Sequence Tag
    - Sequence Length
  - SS Status
  - Forwarded To Number
  - BCD Encoded Number
  - Parameter Tag
  - Length
  - TON
  - NPI
  - Digits
  - Version Indicator
- Octet String, Forwarded To Number
- International  
ISDN / telephone numbering plan  
01234567890123456789

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 04 | 0F | 30 | 0D | 84 | 0B | 91 | 10 | 32 | 54 | 76 | 98 |
|         | 10 | 32 | 54 | 76 | 98 |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SEND SS 3.1.1a**

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: SS Code  
 Parameters: SS Return Result

Coding:

```

BER-TLV:  81  03  01  11  00  82  02  82  81  03  01
          00  04  0F  30  0D  84  0B  91  10  32  54
          76  98  10  32  54  76  98
  
```

**TERMINAL RESPONSE : SEND SS 3.1.1b**

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 beyond ME's capabilities

Coding:

```

BER-TLV:  81  03  01  11  00  82  02  82  81  83  01  30
  
```

**TERMINAL RESPONSE : SEND SS 3.1.1c**

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 sequence 1.

### 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                   | [Successful] |
| 2    | ME → SIM  | PENDING: SEND USSD 1.1.1            |              |
| 3    | SIM → ME  | FETCH                               |              |
| 4    | SIM → ME  | PROACTIVE COMMAND : SEND USSD 1.1.1 |              |
| 5    | ME → USER | Display "Call Forward"              |              |
| 6    | ME → SS   | USSD REQUEST 1.1.1                  |              |
| 7    | SS → ME   | USSD RETURN RESULT 1.1.1            |              |
|      | 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<br>PENDING: SEND USSD 1.2.1 |                |
| 2    | ME → SIM     | FETCH                                         |                |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>USSD 1.2.1        |                |
| 4    | ME →<br>USER | Display "Call Forward"                        |                |
| 5    | ME → SS      | USSD REQUEST 1.2.1                            |                |
| 6    | SS → ME      | USSD RETURN RESULT 1.2.1                      | [Unsuccessful] |
| 7    | ME → SIM     | TERMINAL RESPONSE : SEND<br>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                   |                                               |
| 2    | ME → SIM  | PENDING: SEND USSD 1.3.1            |                                               |
| 3    | SIM → ME  | FETCH                               |                                               |
| 4    | SIM → ME  | PROACTIVE COMMAND : SEND USSD 1.3.1 |                                               |
| 5    | ME → USER | Display "Call Forward"              |                                               |
| 6    | ME → SS   | USSD REQUEST 1.3.1                  |                                               |
| 7    | SS → ME   | USSD RETURN RESULT 1.3.1            | [Network currently unable to process command] |
| 8    | 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<br>PENDING: SEND USSD 1.4.1 |              |
| 2    | ME → SIM     | FETCH                                         |              |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>USSD 1.4.1        |              |
| 4    | ME →<br>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<br>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\*01234567890123456789012345678901234567\*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<br>PENDING: SEND USSD 1.5.1                                                                                                                                                                                                                                |              |
| 2    | ME → SIM     | FETCH                                                                                                                                                                                                                                                                        |              |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>USSD 1.5.1                                                                                                                                                                                                                                       |              |
| 4    | ME →<br>USER | Display "Even if the Fixed Dialling<br>Number service is enabled, the<br>supplementary service control<br>string included in the SEND USSD<br>proactive command shall not be<br>checked against those of the FDN<br>list. Upon receiving this command,<br>the ME shall deci" |              |
| 4    | ME → SS      | USSD REQUEST 1.5.1                                                                                                                                                                                                                                                           | [Successful] |
| 5    | SS → ME      | USSD RETURN RESULT 1.5.1                                                                                                                                                                                                                                                     |              |
| 6    | ME → SIM     | TERMINAL RESPONSE : SEND<br>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<br>PENDING: SEND USSD 1.6.1                                                        |              |
| 2    | ME → SIM  | FETCH                                                                                                |              |
| 3    | SIM → ME  | PROACTIVE COMMAND : SEND<br>USSD 1.6.1                                                               |              |
| 4    | ME        | Should not give any information to<br>the user on the fact that the ME is<br>sending an USSD request |              |
| 5    | ME → SS   | USSD REQUEST 1.6.1                                                                                   |              |
| 6    | SS → ME   | USSD RETURN RESULT 1.6.1                                                                             | [Successful] |
| 7    | ME → SIM  | TERMINAL RESPONSE : SEND<br>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

## 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<br>PENDING: SEND USSD 2.1.1                                            |                                                                                                            |
| 2    | ME → SIM     | FETCH                                                                                    |                                                                                                            |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>USSD 2.1.1                                                   | [BASIC-ICON, self-explanatory]                                                                             |
| 4    | ME →<br>USER | Display BASIC ICON<br>or<br>May give information to user<br>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<br>USSD 2.1.1A<br>or<br>TERMINAL RESPONSE : SEND<br>USSD 2.1.1B | [Command performed successfully]<br>or<br>[Command performed but requested icon<br>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<sub>(IMG)</sub>

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<br>PENDING: SEND USSD 2.2.1                                             |                                                                                                            |
| 2    | ME → SIM     | FETCH                                                                                     |                                                                                                            |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>USSD 2.2.1                                                    | [COLOUR-ICON, self-explanatory]                                                                            |
| 4    | ME →<br>USER | Display COLOUR-ICON<br>or<br>May give information to user<br>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<br>USSD 2.2.1A<br>or<br>TERMINAL RESPONSE : SEND<br>USSD 2.2.1B  | [Command performed successfully]<br>or<br>[Command performed but requested icon<br>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<sub>(IMG)</sub>

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<br>PENDING: SEND USSD 2.3.1                                            |                                                                                                            |
| 2    | ME → SIM     | FETCH                                                                                    |                                                                                                            |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>USSD 2.3.1                                                   | [BASIC-ICON, non self-explanatory]                                                                         |
| 4    | ME →<br>USER | Display "Basic Icon" and BASIC-<br>ICON<br>Or<br>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<br>USSD 2.3.1A<br>or<br>TERMINAL RESPONSE : SEND<br>USSD 2.3.1B | [Command performed successfully]<br>or<br>[Command performed but requested icon<br>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<sub>(IMG)</sub>

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<br>PENDING: SEND USSD 2.4.1 |                                     |
| 2    | ME → SIM  | FETCH                                         |                                     |
| 3    | SIM → ME  | PROACTIVE COMMAND : SEND<br>USSD 2.4.1        | [BASIC-ICON, non self-explanatory]  |
| 4    | ME → SIM  | TERMINAL RESPONSE : SEND<br>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<sub>(IMG)</sub>

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

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

ISO/IEC 10646 [17]

## 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<br>PENDING: SEND USSD 3.1.1                                                                                             |                                                                                                                           |
| 2    | ME → SIM     | FETCH                                                                                                                                     |                                                                                                                           |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>USSD 3.1.1                                                                                                    |                                                                                                                           |
| 4    | ME →<br>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<br>USSD 3.1.1A<br>or<br>TERMINAL RESPONSE : SEND<br>USSD 3.1.1B<br>or<br>TERMINAL RESPONSE : SEND<br>USSD 3.1.1C | [Command performed successfully]<br>or<br>[Command beyond ME’s capabilities]<br>or<br>[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****27.22.4.13.1 SET UP CALL (normal)****27.22.4.13.1.1 Definition and applicability**

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

**27.22.4.13.1.2 Conformance requirement**

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

TS GSM 11.14 [15] clause ~~...~~ 6.4.13, 6.6.12, ~~...~~

## 27.22.4.13.1.3 Test Purpose

To verify that the ME accepts a Proactive Set Up Call , displays the message to the user ,attempts to set up a call to the address, returns the result in the TERMINAL response.

## 27.22.4.13.1.4 Method of test

## 27.22.4.13.1.4.1 Initial Conditions

The ME is connected to both the SIM Simulator and the System Simulator.

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

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

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

## 27.22.4.13.1.4.2 Procedure

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

| Step | Direction    | MESSAGE / Action                                                                                   | Comments                         |
|------|--------------|----------------------------------------------------------------------------------------------------|----------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.1.1                                                    |                                  |
| 2    | ME → SIM     | FETCH                                                                                              |                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP CALL 1.1.1                                                           |                                  |
| 4    | ME →<br>USER | ME displays "Not busy" or<br>otherwise prompts the user to set<br>up a call to "+012340123456p1p2" |                                  |
| 5    | USER →<br>ME | The user confirms the set up call                                                                  | [user confirmation]              |
| 6    | ME → SS      | The ME attempts to set up a call<br>to "+012340123456p1p2"                                         |                                  |
| 7    | SS → ME      | The ME receives the CONNECT<br>message from the system<br>simulator.                               |                                  |
| 8    | ME → SIM     | TERMINAL RESPONSE 1.1.1<br>The ME shall not update EF LND<br>with the called party address.        | [Command performed successfully] |
| 9    | USER →<br>ME | The user ends the call after 5<br>seconds.<br>The ME returns in idle mode.                         |                                  |

**PROACTIVE COMMAND : SET UP CALL 1.1.1**

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Network  
 Alpha identifier: "Not busy"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Coding:

```

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

**TERMINAL RESPONSE : SET UP CALL 1.1.1**

Logically:

## Command details

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

## Device identities

Source device: Network  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

```

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

Expected Sequence 1.2 (SET UP CALL, call rejected by the user)

| Step | Direction     | MESSAGE / Action                                                                                   | Comments                                  |
|------|---------------|----------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1    | SIM → ME      | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.2.1                                                    |                                           |
| 2    | ME → SIM      | FETCH                                                                                              |                                           |
| 3    | SIM → ME      | PROACTIVE COMMAND : SET<br>UP CALL 1.2.1                                                           |                                           |
| 4    | ME →<br>USER  | ME displays "Not busy" or<br>otherwise prompts the user to set<br>up a call to "+012340123456p1p2" |                                           |
| 5    | USER →<br>ME  | The user rejects the set up call                                                                   | [user rejects the call]                   |
| 6    | ME → SIM      | TERMINAL RESPONSE 1.2.1                                                                            | [User did not accept call set-up request] |
| 7    | ME -><br>USER | The ME returns in idle mode.                                                                       |                                           |

**PROACTIVE COMMAND : SET UP CALL 1.2.1**

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Network  
 Alpha identifier: "Not busy"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Coding:

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

**TERMINAL RESPONSE : SET UP CALL 1.2.1**

Logically:

## Command details

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

## Device identities

Source device: Network  
 Destination device: SIM

## Result

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

Coding:

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

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

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

| Step | Direction     | MESSAGE / Action                                                                                                  | Comments                                                 |
|------|---------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 1    | SIM → ME      | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.3.1                                                                   |                                                          |
| 2    | ME → SIM      | FETCH                                                                                                             |                                                          |
| 3    | SIM → ME      | PROACTIVE COMMAND : SET<br>UP CALL 1.3.1                                                                          | [only if not currently busy on another call with redial] |
| 4    | ME →<br>USER  | ME displays "Not busy with redial"<br>or otherwise prompts the user to<br>set up a call to<br>"+012340123456p1p2" |                                                          |
| 5    | USER →<br>ME  | The user confirms the set up call                                                                                 | [user confirms the call]                                 |
| 6    | ME -> SS      | ME attempts to set up a call to<br>"+012340123456p1p2" at least<br>twice                                          | [redial mechanism]                                       |
| 7    | ME → SIM      | TERMINAL RESPONSE 1.3.1                                                                                           | [network currently unable to process<br>command]         |
| 8    | ME -><br>USER | The ME returns in idle mode.                                                                                      |                                                          |

**PROACTIVE COMMAND : SET UP CALL 1.3.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Network

Alpha identifier: "Not busy with redial"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Coding:

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

**TERMINAL RESPONSE : SET UP CALL 1.3.1**

Logically:

Command details

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

Device identities

Source device: Network  
 Destination device: SIM

Result

General Result: network currently unable to process command

Coding:

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

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

ME is busy on a call

| Step | Direction | MESSAGE / Action                                                                            | Comments                                                |
|------|-----------|---------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND                                                                           |                                                         |
| 2    | ME → SIM  | PENDING: SET UP CALL 1.4.1                                                                  |                                                         |
| 3    | SIM → ME  | FETCH                                                                                       |                                                         |
| 4    | SIM → ME  | PROACTIVE COMMAND : SET UP CALL 1.4.1                                                       | [putting all other calls on hold]                       |
| 5    | ME → USER | ME displays "On hold" or otherwise prompts the user to set up a call to "+012340123456p1p2" |                                                         |
| 6    | USER → ME | The user confirms the set up call                                                           | [user confirms the call]                                |
| 7    | ME → SS   | The ME attempts to set up a call to "+012340123456p1p2"                                     |                                                         |
| 8    | SS → ME   | The ME receives the CONNECT message from the system simulator.                              |                                                         |
| 9    | ME → SIM  | TERMINAL RESPONSE 1.4.1                                                                     | [Command performed successfully, previous call on hold] |
| 10   | ME → USER | The ME puts the previous call on hold                                                       |                                                         |
| 11   | USER → ME | The user ends the call after 5 seconds. The ME returns to the previous call                 |                                                         |

**PROACTIVE COMMAND : SET UP CALL 1.4.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Network  
 Alpha identifier: "On hold"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Coding:

BER-TLV: D0 1D 81 03 01 10 02 82 02 81 83 85  
 07 4F 6E 20 68 6F 6C 64 86 09 91 10  
 32 04 21 43 65 1C 2C



**TERMINAL RESPONSE : SET UP CALL 1.4.1**

Logically:

```

Command details
  Command number:      1
  Command type:        SET UP CALL
  Command qualifier:   putting all other calls on hold
Device identities
  Source device:       Network
  Destination device:  SIM
Result
  General Result:      Command performed successfully
    
```

Coding:

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

Expected Sequence 1.5 (SET UP CALL, disconnecting all other calls, ME busy)

ME is busy on a call

| Step | Direction    | MESSAGE / Action                                                                                     | Comments                                                        |
|------|--------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.5.1                                                      |                                                                 |
| 2    | ME → SIM     | FETCH                                                                                                |                                                                 |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP CALL 1.5.1                                                             | [disconnecting all other calls]                                 |
| 4    | ME →<br>USER | ME displays "Disconnect" or<br>otherwise prompts the user to set<br>up a call to "+012340123456p1p2" |                                                                 |
| 5    | USER →<br>ME | The user confirms the set up call                                                                    | [user confirms the call]                                        |
| 6    | ME->SS       | The ME attempts to set up a call<br>to "+012340123456p1p2"                                           |                                                                 |
| 7    | SS → ME      | The ME receives the CONNECT<br>message from the system<br>simulator.                                 |                                                                 |
| 8    | ME → SIM     | TERMINAL RESPONSE 1.5.1<br>The ME disconnects the previous<br>call                                   | [Command performed successfully, previous<br>call disconnected] |
| 9    | USER →<br>ME | The user ends the call after 5<br>seconds.<br>The ME returns to the previous<br>call                 |                                                                 |

**PROACTIVE COMMAND : SET UP CALL 1.5.1**

Logically:

```

Command details
  Command number:      1
  Command type:       SET UP CALL
  Command qualifier:   disconnecting all other calls
Device identities
  Source device:      SIM
  Destination device: Network
Alpha identifier:     "On hold"
Address
  TON:               International
  NPI:               ISDN / telephone numbering plan
  Dialling number string "012340123456p1p2"
    
```

Coding:

```

BER-TLV:  D0  20  81  03  01  10  04  82  02  81  83  85
           0A  44  69  73  63  6F  6E  6E  65  63  74  86
           09  91  10  32  04  21  43  65  1C  2C
    
```

**TERMINAL RESPONSE : SET UP CALL 1.5.1**

Logically:

```

Command details
  Command number:      1
  Command type:       SET UP CALL
  Command qualifier:   putting all other calls on hold
Device identities
  Source device:      Network
  Destination device: SIM
Result
  General Result:     Command performed successfully
    
```

Coding:

```

BER-TLV:  81  03  01  10  04  82  02  83  81  83  01  00
    
```

Expected Sequence 1.6 (SET UP CALL, only if not currently busy on another call, ME busy)

ME is busy on a call

| Step | Direction | MESSAGE / Action                                | Comments                                     |
|------|-----------|-------------------------------------------------|----------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.6.1 |                                              |
| 2    | ME → SIM  | FETCH                                           |                                              |
| 3    | SIM → ME  | PROACTIVE COMMAND : SET<br>UP CALL 1.6.1        | [only if not currently busy on another call] |
| 4    | ME → SIM  | TERMINAL RESPONSE 1.6.1                         | [ME currently unable to process command]     |

**PROACTIVE COMMAND : SET UP CALL 1.6.1**

Logically:

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

Device identities  
 Source device: SIM  
 Destination device: Network  
 Alpha identifier: "Not busy"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Coding:

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

**TERMINAL RESPONSE : SET UP CALL 1.6.1**

Logically:

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

Device identities  
 Source device: Network  
 Destination device: SIM

Result  
 General Result: ME currently unable to process command

Coding:

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

Expected Sequence 1.7 (SET UP CALL, putting all other calls on hold, call hold is not allowed)

ME is busy on a call.

The system simulator shall be configured to not allow Call Hold.

| Step | Direction    | MESSAGE / Action                                                                                  | Comments                                         |
|------|--------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.7.1                                                   |                                                  |
| 2    | ME → SIM     | FETCH                                                                                             |                                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP CALL 1.7.1                                                          | [only if not currently busy on another call]     |
| 4    | ME →<br>USER | ME displays "On hold" or<br>otherwise prompts the user to set<br>up a call to "+012340123456p1p2" |                                                  |
| 5    | USER →<br>ME | The user confirms the set up call                                                                 | [user confirms the call]                         |
| 6    | ME → SIM     | TERMINAL RESPONSE 1.7.1                                                                           | [Network currently unable to process<br>command] |

**PROACTIVE COMMAND : SET UP CALL 1.7.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Network  
 Alpha identifier: "On hold"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Coding:

```

BER-TLV:  D0  1D  81  03  01  10  02  82  02  81  83  85
           07  4F  6E  20  68  6F  6C  64  86  09  91  10
           32  04  21  43  65  1C  2C
    
```

**TERMINAL RESPONSE : SET UP CALL 1.7.1**

Logically:

Command details

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

Device identities

Source device: Network  
 Destination device: SIM

Result

General Result: ME currently unable to process command

Coding:

```

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

## Expected Sequence 1.8 (SET UP CALL, Capability configuration)

| Step | Direction    | MESSAGE / Action                                                                                     | Comments                                                     |
|------|--------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.8.1                                                      |                                                              |
| 2    | ME → SIM     | FETCH                                                                                                |                                                              |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP CALL 1.8.1                                                             | [Capability configuration parameters : full rate<br>support] |
| 4    | ME →<br>USER | ME displays "Capability" or<br>otherwise prompts the user to set<br>up a call to "+012340123456p1p2" |                                                              |
| 5    | USER →<br>ME | The user confirms the set up call                                                                    | [user confirmation]                                          |
| 6    | ME → SS      | The ME attempts to set up a call<br>to "+012340123456p1p2"                                           |                                                              |
| 7    | SS → ME      | The ME receives the CONNECT<br>message from the system<br>simulator.                                 |                                                              |
| 8    | ME → SIM     | TERMINAL RESPONSE 1.8.1                                                                              | [Command performed successfully]                             |
| 9    | USER →<br>ME | The user ends the call<br>The ME returns in idle mode.                                               |                                                              |

**PROACTIVE COMMAND : SET UP CALL 1.8.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: if not busy on another call

Device identities

Source device: SIM  
 Destination device: Network

Alpha identifier: "Capability config"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Capability configuration parameters

Information transfer cap: full rate support only MS

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2B | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 11 | 43 | 61 | 70 | 61 | 62 | 69 | 6C | 69 | 74 | 79 | 20 |
|          | 63 | 6F | 6E | 66 | 69 | 67 | 86 | 09 | 91 | 10 | 32 | 04 |
|          | 21 | 43 | 65 | 1C | 2C | 87 | 02 | 01 | 20 |    |    |    |

**TERMINAL RESPONSE : SET UP CALL 1.8.1**

Logically:

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

Coding:

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

Expected Sequence 1.9 (SET UP CALL, 256 chars length, long dialing number string, no alpha identifier)

| Step | Direction    | MESSAGE / Action                                                                                                 | Comments                                             |
|------|--------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.9.1                                                                  |                                                      |
| 2    | ME → SIM     | FETCH                                                                                                            |                                                      |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP CALL 1.9.1                                                                         | [long dialing number string, no alpha<br>identifier] |
| 4    | ME →<br>USER | ME displays "Capability" or<br>otherwise prompts the user to set<br>up a call to<br>"012345678901234....aaaaa01" |                                                      |
| 5    | USER →<br>ME | The user confirms the set up call                                                                                | [user confirmation]                                  |
| 6    | ME->SS       | The ME attempts to set up a call<br>to<br>"012345678901234....aaaaa01"                                           |                                                      |
| 7    | SS → ME      | The ME receives the CONNECT<br>message from the system<br>simulator.                                             |                                                      |
| 8    | ME → SIM     | TERMINAL RESPONSE 1.9.1                                                                                          | [Command performed successfully]                     |
| 9    | USER →<br>ME | The user ends the call<br>The ME returns in idle mode.                                                           |                                                      |

PROACTIVE COMMAND : SET UP CALL 1.9.1

Logically:

Command details

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

Device identities

Source device: SIM
Destination device: Network

Address

TON: International
NPI: ISDN / telephone numbering plan
Dialling number string: "012345678901234567890123456789\*#####
012345678901234567890123456789\*#####
012345678901234567890123456789\*#####
012345678901234567890123456789\*#####a\*
012345678901234567890123456789\*#####aa
012345678901234567890123456789\*#####aaa#
012345678901234567890123456789\*#####aaaa
012345678901234567890123456789\*#####aaaaa\*
012345678901234567890123456789\*#####aaaaaa#
012345678901234567890123456789\*#####aaaaaaa#
012345678901234567890123456789\*#####aaaaaaa01"

Coding:

Table with 12 columns and 20 rows of BER-TLV values. Columns represent different BER-TLV types and values, showing a sequence of digits and alphanumeric characters.

**TERMINAL RESPONSE : SET UP CALL 1.9.1**

Logically:

## Command details

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

## Device identities

Source device: Network  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

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

| Step | Direction | MESSAGE / Action                                                                                                                                                                                                                                                                                                   | Comments                         |
|------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND                                                                                                                                                                                                                                                                                                  |                                  |
| 2    | ME → SIM  | PENDING: SET UP CALL 1.10.1                                                                                                                                                                                                                                                                                        |                                  |
| 3    | SIM → ME  | FETCH                                                                                                                                                                                                                                                                                                              |                                  |
| 3    | SIM → ME  | PROACTIVE COMMAND : SET UP CALL 1.10.1                                                                                                                                                                                                                                                                             | [long alpha identifier]          |
| 4    | ME → USER | ME displays "Three types are defined: - set up a call, but only if not currently busy on another call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, "or otherwise prompts the user to set up a call to "+01" |                                  |
| 5    | USER → ME | The user confirms the set up call                                                                                                                                                                                                                                                                                  | [user confirmation]              |
| 6    | ME->SS    | The ME attempts to set up a call to "+01"                                                                                                                                                                                                                                                                          |                                  |
| 7    | SS → ME   | The ME receives the CONNECT message from the system simulator.                                                                                                                                                                                                                                                     |                                  |
| 8    | ME → SIM  | TERMINAL RESPONSE 1.10.1                                                                                                                                                                                                                                                                                           | [Command performed successfully] |
| 9    | USER → ME | The user ends the call<br>The ME returns in idle mode.                                                                                                                                                                                                                                                             |                                  |



**PROACTIVE COMMAND : SET UP CALL 1.10.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Network  
 Alpha identifier: "Three types are defined: - set up a call, but only if not currently busy on another call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, "

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "01"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | FD | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 81 | 83 |
|          | 85 | 81 | ED | 54 | 68 | 72 | 65 | 65 | 20 | 74 | 79 | 70 |
|          | 65 | 73 | 20 | 61 | 72 | 65 | 20 | 64 | 65 | 66 | 69 | 6E |
|          | 65 | 64 | 3A | 20 | 2D | 20 | 73 | 65 | 74 | 20 | 75 | 70 |
|          | 20 | 61 | 20 | 63 | 61 | 6C | 6C | 2C | 20 | 62 | 75 | 74 |
|          | 20 | 6F | 6E | 6C | 79 | 20 | 69 | 66 | 20 | 6E | 6F | 74 |
|          | 20 | 63 | 75 | 72 | 72 | 65 | 6E | 74 | 6C | 79 | 20 | 62 |
|          | 75 | 73 | 79 | 20 | 6F | 6E | 20 | 61 | 6E | 6F | 74 | 68 |
|          | 65 | 72 | 20 | 63 | 61 | 6C | 6C | 3B | 20 | 2D | 20 | 73 |
|          | 65 | 74 | 20 | 75 | 70 | 20 | 61 | 20 | 63 | 61 | 6C | 6C |
|          | 2C | 20 | 70 | 75 | 74 | 74 | 69 | 6E | 67 | 20 | 61 | 6C |
|          | 6C | 20 | 6F | 74 | 68 | 65 | 72 | 20 | 63 | 61 | 6C | 6C |
|          | 73 | 20 | 28 | 69 | 66 | 20 | 61 | 6E | 79 | 29 | 20 | 6F |
|          | 6E | 20 | 68 | 6F | 6C | 64 | 3B | 20 | 2D | 20 | 73 | 65 |
|          | 74 | 20 | 75 | 70 | 20 | 61 | 20 | 63 | 61 | 6C | 6C | 2C |
|          | 20 | 64 | 69 | 73 | 63 | 6F | 6E | 6E | 65 | 63 | 74 | 69 |
|          | 6E | 67 | 20 | 61 | 6C | 6C | 20 | 6F | 74 | 68 | 65 | 72 |
|          | 20 | 63 | 61 | 6C | 6C | 73 | 20 | 28 | 69 | 66 | 20 | 61 |
|          | 6E | 79 | 29 | 20 | 66 | 69 | 72 | 73 | 74 | 2E | 20 | 46 |
|          | 6F | 72 | 20 | 65 | 61 | 63 | 68 | 20 | 6F | 66 | 20 | 74 |
|          | 68 | 65 | 73 | 65 | 20 | 74 | 79 | 70 | 65 | 73 | 2C | 20 |
|          | 86 | 02 | 91 | 10 |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SET UP CALL 1.10.1**

Logically:

Command details

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

Device identities

Source device: Network  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 1.11 (SET UP CALL, Called party subaddress)

| Step | Direction | MESSAGE / Action                                                                                     | Comments                                     |
|------|-----------|------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND                                                                                    |                                              |
| 2    | ME → SIM  | PENDING: SET UP CALL 1.11.1<br>FETCH                                                                 |                                              |
| 3    | SIM → ME  | PROACTIVE COMMAND : SET UP CALL 1.11.1                                                               | [set up a call with called party subaddress] |
| 4    | ME → USER | ME displays "Called party" or otherwise prompts the user to set up a call to "+012340123456p1p2"     |                                              |
| 5    | USER → ME | The user confirms the set up call                                                                    | [user confirmation]                          |
| 6    | ME → SS   | The ME attempts to set up a call to "+012340123456p1p2" with the called party subaddress information |                                              |
| 7    | SS → ME   | The ME receives the CONNECT message from the system simulator.                                       |                                              |
| 8    | ME → SIM  | TERMINAL RESPONSE 1.11.1                                                                             | [Command performed successfully]             |
| 9    | USER → ME | The user ends the call<br>The ME returns in idle mode.                                               |                                              |

**PROACTIVE COMMAND : SET UP CALL 1.11.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: if not busy on another call

Device identities

Source device: SIM  
 Destination device: Network  
 Alpha identifier: "Called party"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"

Called party subaddress

Type of subaddress: NSAP (X.213 / ISO 8348 AD2)  
 Odd / even indicator: even number of address signals  
 Subaddress information: AFI, 95, 95, 95, 95

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2B | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0C | 43 | 61 | 6C | 6C | 65 | 64 | 20 | 70 | 61 | 72 | 74 |
|          | 79 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C |
|          | 88 | 07 | 80 | 50 | 95 | 95 | 95 | 95 | 95 |    |    |    |

**TERMINAL RESPONSE : SET UP CALL 1.11.1**

Logically:

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

Device identities  
 Source device: Network  
 Destination device: SIM

Result  
 General Result: Command performed successfully

Coding:

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

Expected Sequence 1.12 (SET UP CALL, maximum duration for the redial mechanism)

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

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

**PROACTIVE COMMAND : SET UP CALL 1.12.1**

Logically:

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

Device identities  
 Source device: SIM  
 Destination device: Network  
 Alpha identifier: "Duration"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"

Duration  
 Unit: Seconds  
 Interval: 10

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 81 | 83 | 85 |
|          | 08 | 44 | 75 | 72 | 61 | 74 | 69 | 6F | 6E | 86 | 09 | 91 |
|          | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C | 84 | 02 | 01 | 0A |

**TERMINAL RESPONSE : SET UP CALL 1.12.1**

Logically:

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

Device identities  
 Source device: Network  
 Destination device: SIM

Result  
 General Result: network currently unable to process command

Coding:

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

## 27.22.4.13.1.5 Test Requirement

The ME shall operate in the manner defined in the expected sequences 1.1 to 1.12

## 27.22.4.13.2 SET UP CALL (second alpha identifier)

## 27.22.4.13.2.1 Definition and applicability

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

27.22.4.13.2.2 Conformance requirement

27.22.4.13.2.3 Test Purpose

To verify that the ME accepts a Proactive Set Up Call , displays the message to the user ,attempts to set up a call to the address, returns the result in the TERMINAL response.

27.22.4.13.2.4 Method of test

27.22.4.13.2.4.1 Initial Conditions

The ME is connected to both the SIM Simulator and the System Simulator.

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

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

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

27.22.4.13.1.4.2 Procedure

Expected Sequence 2.1 (SET UP CALL, two alpha identifiers)

| Step | Direction    | MESSAGE / Action                                                                                                             | Comments                         |
|------|--------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP CALL 2.1.1                                                                              |                                  |
| 2    | ME → SIM     | FETCH                                                                                                                        |                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP CALL 2.1.1                                                                                     |                                  |
| 4    | ME →<br>USER | ME displays "Confirmation" or<br>otherwise prompts the user to set<br>up a call to "+012340123456p1p2"                       |                                  |
| 5    | USER →<br>ME | The user confirms the set up call                                                                                            | [user confirmation]              |
| 6    | ME->SS       | The ME attempts to set up a call<br>to "+012340123456p1p2".<br>The ME displays "Call" or<br>otherwise an informative message | [second alpha identifier]        |
| 7    | SS → ME      | The ME receives the CONNECT<br>message from the system<br>simulator.                                                         |                                  |
| 8    | ME → SIM     | TERMINAL RESPONSE 2.1.1<br>The ME shall not update EF LND<br>with the called party address.                                  | [Command performed successfully] |
| 9    | USER →<br>ME | The user ends the call after 5<br>seconds.<br>The ME returns in idle mode.                                                   |                                  |

**PROACTIVE COMMAND : SET UP CALL 2.1.1**

Logically:

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

Device identities  
 Source device: SIM  
 Destination device: Network  
 Alpha identifier: "Confirmation"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"  
 Alpha identifier (call set up phase): "Call"

Coding:

|          |    |    |    |                |    |    |    |    |    |    |    |    |
|----------|----|----|----|----------------|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 28 | 81 | 03             | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0C | 43 | 4F | 4 <sup>E</sup> | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 86 | 09 | 91             | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C |
|          | 85 | 04 | 43 | 41             | 4C | 4C |    |    |    |    |    |    |

**TERMINAL RESPONSE : SET UP CALL 2.1.1**

Logically:

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

Device identities  
 Source device: Network  
 Destination device: SIM

Result  
 General Result: Command performed successfully

Coding:

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

27.22.4.13.3.5 Test **R**requirement

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

**27.22.4.13.3 SET UP CALL (display of icons)****27.22.4.13.3.1 Definition and applicability**

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

27.22.4.13.3.2 Conformance requirement

27.22.4.13.3.3 Test Purpose

To verify that the ME accepts a Proactive Set Up Call , displays the message or icon to the user ,attempts to set up a call to the address, returns the result in the TERMINAL response.

27.22.4.13.3.4 Method of test

27.22.4.13.3.4.1 Initial Conditions

The ME is connected to both the SIM Simulator and the System Simulator.

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

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

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

27.22.4.13.3.4.2 Procedure

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

| Step | Direction    | MESSAGE / Action                                                                                                                                                              | Comments                                                                                                         |
|------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP CALL 3.1.1                                                                                                                               |                                                                                                                  |
| 2    | ME → SIM     | FETCH                                                                                                                                                                         |                                                                                                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP CALL 3.1.1                                                                                                                                      | Including icon identifier, icon shall be displayed in addition of the first alpha identifier                     |
| 4    | ME →<br>USER | ME displays "Set up call Icon 3.1.1" and the basic icon during a user confirmation phase. If the ME cannot display both alpha string and icon, it only displays alpha string. |                                                                                                                  |
| 5    | USER →<br>ME | The user confirms the set up call                                                                                                                                             | [user confirmation]                                                                                              |
| 6    | ME→SS        | The ME attempts to set up a call to "+012340123456p1p2"                                                                                                                       |                                                                                                                  |
| 7    | SS → ME      | The ME receives the CONNECT message from the system simulator.                                                                                                                |                                                                                                                  |
| 8    | ME → SIM     | TERMINAL RESPONSE 3.1.1A or<br>TERMINAL RESPONSE 3.1.1B                                                                                                                       | [Command performed successfully] or [Command performed successfully, but requested icon could not be displayed]. |
| 9    | USER →<br>ME | The user ends the call after 5 seconds.<br>The ME returns in idle mode.                                                                                                       |                                                                                                                  |

**PROACTIVE COMMAND : SET UP CALL 3.1.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Network

Alpha identifier: " Set up call Icon 3.1.1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is not self-explanatory  
 Icon identifier: <record 1 in EF IMG>

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 16 | 53 | 65 | 74 | 20 | 75 | 70 | 20 | 63 | 61 | 6C | 6C |
|          | 20 | 49 | 63 | 6F | 6E | 20 | 33 | 2E | 31 | 2E | 31 | 86 |
|          | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C | 9E | 02 |
|          | 01 | 01 |    |    |    |    |    |    |    |    |    |    |



**TERMINAL RESPONSE : SET UP CALL 3.1.1A**

## Logically:

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

## Coding:

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

**TERMINAL RESPONSE : SET UP CALL 3.1.1B**

## Logically:

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| Command details     |                                                                           |
| Command number:     | 1                                                                         |
| Command type:       | SET UP CALL                                                               |
| Command qualifier:  | only if not currently busy on another call                                |
| Device identities   |                                                                           |
| Source device:      | Network                                                                   |
| Destination device: | SIM                                                                       |
| Result              |                                                                           |
| General Result:     | Command performed successfully, but requested icon could not be displayed |

## Coding:

BER-TLV: 81 03 01 10 00 82 02 83 81 83 01 04

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

| Step | Direction    | MESSAGE / Action                                                                                                                                | Comments                                                                                                               |
|------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP CALL 3.2.1                                                                                                 |                                                                                                                        |
| 2    | ME → SIM     | FETCH                                                                                                                                           |                                                                                                                        |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP CALL 3.2.1                                                                                                        | Including icon identifier, icon shall be<br>displayed instead of the first alpha identifier                            |
| 4    | ME →<br>USER | ME displays the basic icon Iduring<br>a user confirmation phase. If the<br>ME cannot display the icon, it<br>displays " Set up call Icon 3.2.1" |                                                                                                                        |
| 5    | USER →<br>ME | The user confirms the set up call                                                                                                               | [user confirmation]                                                                                                    |
| 6    | ME->SS       | The ME attempts to set up a call<br>to "+012340123456p1p2"                                                                                      |                                                                                                                        |
| 7    | SS → ME      | The ME receives the CONNECT<br>message from the system<br>simulator.                                                                            |                                                                                                                        |
| 8    | ME → SIM     | TERMINAL RESPONSE 3.2.1A or<br>TERMINAL RESPONSE 3.2.1B                                                                                         | [Command performed successfully] or<br>[Command performed successfully, but<br>requested icon could not be displayed]. |
| 9    | USER →<br>ME | The user ends the call after 5<br>seconds.<br>The ME returns in idle mode.                                                                      |                                                                                                                        |

**PROACTIVE COMMAND : SET UP CALL 3.2.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Network

Alpha identifier: " Set up call Icon 3.2.1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is self-explanatory  
 Icon identifier: <record 1 in EF IMG>

Coding:

```

BER-TLV:  D0  38  81  03  01  10  00  82  02  81  83  85
          16  53  65  74  20  75  70  20  63  61  6C  6C
          20  49  63  6F  6E  20  33  2E  32  2E  31  86
          09  91  10  32  04  21  43  65  1C  2C  9E  02
          00  01
    
```

**TERMINAL RESPONSE : SET UP CALL 3.2.1A**

## Logically:

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

## Coding:

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

**TERMINAL RESPONSE : SET UP CALL 3.2.1B**

## Logically:

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| Command details     |                                                                           |
| Command number:     | 1                                                                         |
| Command type:       | SET UP CALL                                                               |
| Command qualifier:  | only if not currently busy on another call                                |
| Device identities   |                                                                           |
| Source device:      | Network                                                                   |
| Destination device: | SIM                                                                       |
| Result              |                                                                           |
| General Result:     | Command performed successfully, but requested icon could not be displayed |

## Coding:

BER-TLV: 81 03 01 10 00 82 02 83 81 83 01 04

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

| Step | Direction | MESSAGE / Action                                                                                                                                                             | Comments                                                                                                         |
|------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND                                                                                                                                                            |                                                                                                                  |
| 2    | ME → SIM  | PENDING: SET UP CALL 3.3.1                                                                                                                                                   |                                                                                                                  |
| 3    | SIM → ME  | FETCH                                                                                                                                                                        |                                                                                                                  |
| 3    | SIM → ME  | PROACTIVE COMMAND : SET UP CALL 3.3.1                                                                                                                                        | Including icon identifier, icon shall be displayed in addition of the first alpha identifier                     |
| 4    | ME → USER | ME displays "Set up call Icon 3.3" and the colour icon during a user confirmation phase. If the ME cannot display both alpha string and icon, it only displays alpha string. |                                                                                                                  |
| 5    | USER → ME | The user confirms the set up call                                                                                                                                            | [user confirmation]                                                                                              |
| 6    | ME->SS    | The ME attempts to set up a call to "+012340123456p1p2"                                                                                                                      |                                                                                                                  |
| 7    | SS → ME   | The ME receives the CONNECT message from the system simulator.                                                                                                               |                                                                                                                  |
| 8    | ME → SIM  | TERMINAL RESPONSE 3.3.1A or TERMINAL RESPONSE 3.3.1B                                                                                                                         | [Command performed successfully] or [Command performed successfully, but requested icon could not be displayed]. |
| 9    | USER → ME | The user ends the call after 5 seconds.<br>The ME returns in idle mode.                                                                                                      |                                                                                                                  |

**PROACTIVE COMMAND : SET UP CALL 3.3.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Network

Alpha identifier: " Set up call Icon 3.3.1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is self-explanatory  
 Icon identifier: <record 2 in EF IMG>

Coding:

```

BER-TLV:  D0  38  81  03  01  10  00  82  02  81  83  85
           16  53  65  74  20  75  70  20  63  61  6C  6C
           20  49  63  6F  6E  20  33  2E  33  2E  31  86
           09  91  10  32  04  21  43  65  1C  2C  9E  02
           01  02
    
```

**TERMINAL RESPONSE : SET UP CALL 3.3.1A**

## Logically:

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

## Coding:

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

**TERMINAL RESPONSE : SET UP CALL 3.3.1B**

## Logically:

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| Command details     |                                                                           |
| Command number:     | 1                                                                         |
| Command type:       | SET UP CALL                                                               |
| Command qualifier:  | only if not currently busy on another call                                |
| Device identities   |                                                                           |
| Source device:      | Network                                                                   |
| Destination device: | SIM                                                                       |
| Result              |                                                                           |
| General Result:     | Command performed successfully, but requested icon could not be displayed |

## Coding:

BER-TLV: 81 03 01 10 00 82 02 83 81 83 01 04

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

| Step | Direction    | MESSAGE / Action                                                                                                                                                                                        | Comments                                                                                                               |
|------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP CALL 3.4.1                                                                                                                                                         |                                                                                                                        |
| 2    | ME → SIM     | FETCH                                                                                                                                                                                                   |                                                                                                                        |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP CALL 3.4.1                                                                                                                                                                | Including a second alpha identifier and two<br>icons                                                                   |
| 4    | ME →<br>USER | ME displays the basic icon during<br>a user confirmation phase. If the<br>ME cannot display the icon, it<br>displays " Set up call Icon 3.4.1"                                                          |                                                                                                                        |
| 5    | USER →<br>ME | The user confirms the set up call                                                                                                                                                                       | [user confirmation]                                                                                                    |
| 6    | ME->SS       | The ME attempts to set up a call<br>to "+012340123456p1p2". The ME<br>displays the basic icon during the<br>set up call. If the ME cannot<br>display the icon, it displays " Set<br>up call Icon 3.4.1" |                                                                                                                        |
| 7    | SS → ME      | The ME receives the CONNECT<br>message from the system<br>simulator.                                                                                                                                    |                                                                                                                        |
| 8    | ME → SIM     | TERMINAL RESPONSE 3.4.1A or<br>TERMINAL RESPONSE 3.4.1B                                                                                                                                                 | [Command performed successfully] or<br>[Command performed successfully, but<br>requested icon could not be displayed]. |
| 9    | USER →<br>ME | The user ends the call after 5<br>seconds.<br>The ME returns in idle mode.                                                                                                                              |                                                                                                                        |

### PROACTIVE COMMAND : SET UP CALL 3.4.1

Logically:

Command details

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

Device identities

Source device: SIM  
Destination device: Network

Alpha identifier: " Set up call Icon 3.4.1"

Address

TON: International  
NPI: ISDN / telephone numbering plan  
Dialling number string "012340123456p1p2"

Alpha identifier: " Set up call Icon 3.4.2"

Icon identifier

Icon qualifier: icon is self-explanatory  
Icon identifier: <record 1 in EF IMG>

Coding:

|          |    |    |    |                |    |    |    |    |    |    |    |    |
|----------|----|----|----|----------------|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 48 | 81 | 03             | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 16 | 53 | 65 | 74             | 20 | 75 | 70 | 20 | 63 | 61 | 6C | 6C |
|          | 20 | 49 | 63 | 6F             | 6E | 20 | 33 | 2E | 34 | 2E | 31 | 86 |
|          | 09 | 91 | 10 | 32             | 04 | 21 | 43 | 65 | 1C | 2C | 85 | 16 |
|          | 53 | 65 | 74 | 20             | 75 | 70 | 20 | 63 | 61 | 6C | 6C | 20 |
|          | 49 | 63 | 6F | 6 <sup>E</sup> | 20 | 33 | 2E | 34 | 2E | 32 | 9E | 02 |
|          | 00 | 01 |    |                |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SET UP CALL 3.4.1A**

Logically:

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

Coding:

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

**TERMINAL RESPONSE : SET UP CALL 3.4.1B**

Logically:

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| Command details     |                                                                           |
| Command number:     | 1                                                                         |
| Command type:       | SET UP CALL                                                               |
| Command qualifier:  | only if not currently busy on another call                                |
| Device identities   |                                                                           |
| Source device:      | Network                                                                   |
| Destination device: | SIM                                                                       |
| Result              |                                                                           |
| General Result:     | Command performed successfully, but requested icon could not be displayed |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 83 | 81 | 83 | 01 | 04 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**27.22.4.13.3.5 Test Requirement**

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

**27.22.4.14 POLLING OFF**

## 27.22.4.14 POLLING OFF

### 27.22.4.14.1 Definition and applicability

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

### 27.22.4.14.2 Conformance Requirement

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

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

### 27.22.4.14.3 Test Purpose

To verify that the ME cancels the effect of any previous POLL INTERVAL commands and does not effect SIM presence detection.

### 27.22.4.14.4 Method of Test

#### 27.22.4.14.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

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

#### 27.22.4.14.4.2 Procedure

#### Expected Sequence 1.1 (POLLING OFF)

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



**PROACTIVE ~~COMMAND:COMMAND~~: POLL INTERVAL 1.1.1**

## Logically:

Command details  
 Command number: 1  
 Command type: POLL INTERVAL  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Duration  
 Time unit: Minutes  
 Time interval: 1

## Coding:

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

**TERMINAL RESPONSE : POLL INTERVAL 1.1.1**

## Logically:

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

## Coding:

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

**~~Proactive SIM Command~~PROACTIVE COMMAND 1.1.2: POLLING OFF 1.1.2**

## Logically:

Command details  
 Command number: 1  
 Command type: POLLING OFF  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: ME

## Coding:

BER-TLV: D0 09 81 03 01 04 00 82 02 81 82

**TERMINAL RESPONSE : POLLING OFF 1.1.2**

Logically:

|                     |                                |
|---------------------|--------------------------------|
| Command details     |                                |
| Command number:     | 1                              |
| Command type:       | POLLING OFF                    |
| Command qualifier:  | "00"                           |
| Device identities   |                                |
| Source device:      | ME                             |
| Destination device: | SIM                            |
| Result              |                                |
| General Result:     | Command performed successfully |

Coding:

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

#### 27.22.4.14.5 Test Requirement

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

#### 27.22.4.15 PROVIDE LOCAL INFORMATION

~~TBD~~

##### 27.22.4.15.1 Definition and applicability

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

##### 27.22.4.15.2 Conformance requirement

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

TS GSM 11.14 [15] clause 6.4.15

##### 27.22.4.15.3 Test Purpose

To verify that the ME returns the following requested local information within a TERMINAL RESPONSE :

- location information: the mobile country code (MCC), mobile network code (MNC), location area code (LAC) and cell ID of the current serving cell;
- the IMEI of the ME;
- the Network Measurement Results and the BCCH channel list;
- the current date, time and time zone;
- the current ME language setting;
- the Timing Advance,

if the local information is stored in the ME; otherwise, sends the correct error code to the SIM in the TERMINAL RESPONSE.

##### 27.22.4.15.4 Method of tests

###### 27.22.4.15.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The ME is connected to the System Simulator and has performed the location update procedure.

The GSM parameters of the system simulator are :

Mobile country Code (MCC) = 1,

Mobile network code (MNC) = 1,

Location Area code (LAC) = 1,

Cell Identity value = 1,

Timing advance = 0,

Frequency parameters : DCS 1800, neighbour allocations = 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585.

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

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

27.22.4.15.4.2 Procedure

Expected Sequence 1.1 (PROVIDE LOCAL INFORMATION, Local Info (MCC, MNC, LAC & Cell ID)).

| <u>Step</u> | <u>Direction</u> | <u>MESSAGE / Action</u>                                    | <u>Comments</u>                                                                            |
|-------------|------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 1           | <u>SIM → ME</u>  | <u>PROACTIVE COMMAND PROVIDE LOCAL INFORMATION 1.1.1</u>   |                                                                                            |
| 2           | <u>ME → SIM</u>  | <u>FETCH</u>                                               |                                                                                            |
| 3           | <u>SIM → ME</u>  | <u>PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.1.1</u> |                                                                                            |
| 4           | <u>ME → SIM</u>  | <u>TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.1.1</u> | <u>[Command performed successfully, MCC MNC LAC and Cell Identity as system simulator]</u> |

**PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.1.1**

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier : « 00 » Location information (MCC MNC LAC and Cell Identity)

Device identities

Source device: SIM

Destination device: ME

Coding:

BER-TLV: D0 09 81 03 01 26 00 82 02 81 82

**TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.1.1**

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier : « 00 » Location information (MCC MNC LAC and Cell Identity)

Device identities

Source device: ME

Destination device: SIM

Result

General Result: Command performed successfully

Location Information

MCC & MNC: MCC = 1, MNC = 1

Location Area Code: 1

Cell Identity Value: 1

Coding:

BER-TLV:   81   03   01   26   00   82   02   82   81   83   01   00  
               93   07   00   F1   10   00   01   00   01   83   01   00

Expected Sequence 1.2 (PROVIDE LOCAL INFORMATION, IMEI of the ME)

| Step | Direction | MESSAGE / Action                                    | Comments                                                   |
|------|-----------|-----------------------------------------------------|------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND PROVIDE LOCAL INFORMATION 1.2.1   |                                                            |
| 2    | ME → SIM  | FETCH                                               |                                                            |
| 3    | SIM → ME  | PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.2.1 |                                                            |
| 4    | ME → SIM  | TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.2.1 | [Command performed successfully, IMEI as system simulator] |

**PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.2.1**

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier : « 01 » IMEI of the ME

Device identities

Source device: SIM

Destination device: ME

Coding:

BER-TLV:   D0   09   81   03   01   26   01   82   02   81   82

**TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.2.1**

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier : « 01 » IMEI of the ME

Device identities

Source device: ME

Destination device: SIM

Result

General Result: Command performed successfully

IMEI

IMEI of the ME: The IMEI of the ME ( 1234567890123456 as an example in the BER-TLV)

Coding:

BER-TLV:   81   03   01   26   01   82   02   82   81   83   01   00  
               94   08   21   43   65   87   09   21   43   65

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

| Step | Direction | MESSAGE / Action                                    | Comments |
|------|-----------|-----------------------------------------------------|----------|
| 1    | SIM → ME  | PROACTIVE COMMAND PROVIDE LOCAL INFORMATION 1.3.1   |          |
| 2    | ME → SIM  | FETCH                                               |          |
| 3    | SIM → ME  | PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.3.1 |          |

|   |          |                                                     |                                                             |
|---|----------|-----------------------------------------------------|-------------------------------------------------------------|
| 4 | ME → SIM | TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.3.1 | [Command performed successfully, NMR as system simulator ?] |
|---|----------|-----------------------------------------------------|-------------------------------------------------------------|

**PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.3.1**

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier : « 02 » Network Measurement Results

Device identities

Source device: SIM  
 Destination device: ME

Coding:

BER-TLV: D0 09 81 03 01 26 02 82 02 81 82

**TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.3.1**

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier : « 02 » Network Measurement Results

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully  
 Network Measurement Results RXLEV-FULL-SERVING-CELL=52, BA not used, DTX not used, as an example in the BER-TLV)  
 BCCH channel list 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585

Coding:

BER-TLV: 81 03 01 26 02 82 02 82 81 83 01 00  
 96 10 34 34 00 00 00 00 00 00 00 00  
 00 00 00 00 00 00 9D 0E 8C 63 58 E2  
 39 8F 63 F9 06 45 91 A4 90 00

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

| Step | Direction | MESSAGE / Action                                    | Comments                         |
|------|-----------|-----------------------------------------------------|----------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND PROVIDE LOCAL INFORMATION 1.4.1   |                                  |
| 2    | ME → SIM  | FETCH                                               |                                  |
| 3    | SIM → ME  | PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.4.1 |                                  |
| 4    | ME → SIM  | TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.4.1 | [Command performed successfully] |

**PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.4.1**

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier : « 03 » Date Time and Time Zone

Device identities

Source device: SIM  
 Destination device: ME

Coding:

BER-TLV:    D0    09    81    03    01    26    03    82    02    81    82

**TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.4.1**

Logically:

Command details  
Command number:                    1  
Command type:                    PROVIDE LOCAL INFORMATION  
Qualifier :                            « 03 » Date Time and Time Zone  
Device identities  
Source device:                    ME  
Destination device:                SIM  
Result  
General Result:                    Command performed successfully  
Date-Time and Time Zone        date an time set by the user : 7<sup>th</sup> may 2002, 14h 08mn 17s, no time zone information, as an example in TLV

Coding:

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

Expected Sequence 1.5 (PROVIDE LOCAL INFORMATION, Language setting )

| <u>Step</u> | <u>Direction</u> | <u>MESSAGE / Action</u>                                    | <u>Comments</u>                         |
|-------------|------------------|------------------------------------------------------------|-----------------------------------------|
| 1           | <u>SIM → ME</u>  | <u>PROACTIVE COMMAND PROVIDE LOCAL INFORMATION 1.5.1</u>   |                                         |
| 2           | <u>ME → SIM</u>  | <u>FETCH</u>                                               |                                         |
| 3           | <u>SIM → ME</u>  | <u>PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.5.1</u> |                                         |
| 4           | <u>ME → SIM</u>  | <u>TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.5.1</u> | <u>[Command performed successfully]</u> |

**PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.5.1**

Logically:

Command details  
Command number:                    1  
Command type:                    PROVIDE LOCAL INFORMATION  
Qualifier :                            « 04 » Language setting  
Device identities  
Source device:                    SIM  
Destination device:                ME

Coding:

BER-TLV:    D0    09    81    03    01    26    04    82    02    81    82

**TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.5.1**

Logically:

Command details  
Command number:                    1  
Command type:                    PROVIDE LOCAL INFORMATION  
Qualifier :                            « 04 » Language setting  
Device identities  
Source device:                    ME  
Destination device:                SIM  
Result  
General Result:                    Command performed successfully  
Language                                english (« en ») as an example for TLV

Coding:

BER-TLV: 81 03 01 26 04 82 02 82 81 83 01 00  
 AD 02 65 6E

Expected Sequence 1.6 (PROVIDE LOCAL INFORMATION, Timing advance)

| Step | Direction | MESSAGE / Action                                    | Comments                         |
|------|-----------|-----------------------------------------------------|----------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND PROVIDE LOCAL INFORMATION 1.6.1   |                                  |
| 2    | ME → SIM  | FETCH                                               |                                  |
| 3    | SIM → ME  | PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.6.1 |                                  |
| 4    | ME → SIM  | TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.6.1 | [Command performed successfully] |

**PROACTIVE COMMAND : PROVIDE LOCAL INFORMATION 1.6.1**

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier : « 05 » Timing Advance

Device identities

Source device: SIM  
 Destination device: ME

Coding:

BER-TLV: D0 09 81 03 01 26 05 82 02 81 82

**TERMINAL RESPONSE : PROVIDE LOCAL INFORMATION 1.6.1**

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier : « 05 » Timing Advance

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully  
 Timing Advance 2 bytes  
 ME status : « 00 » ME is in idle state Idle State  
 Timing Advance : 0

Coding:

BER-TLV: 81 03 01 26 05 82 02 82 81 83 01 00  
 AE 02 00 00

27.22.4.16 SET UP EVENT LIST

27.22.4.16.1 SET UP EVENT LIST (normal)

27.22.4.16.1.1 Definition and applicability

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

## 27.22.4.16.1.2 Conformance requirement

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

TS GSM 11.14 [15] clause ~~6.4.16, 6.6.16,~~

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

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

## 27.22.4.16.1.3 Test Purpose

To verify that the ME accepts a list of events that it shall monitor the current list of events supplied by the SIM, is able to have this current list of events replaced and is able to have the list of events removed.

To verify that when the ME has successfully accepted or removed the list of events, it shall send TERMINAL RESPONSE (OK) to the SIM and when the ME is not able to successfully accept or remove the list of events, it shall send TERMINAL RESPONSE (Command beyond ME's capabilities).

## 27.22.4.16.1.4 Method of test

## 27.22.4.16.1.4.1 Initial Conditions

The ME is connected to both the SIM Simulator and the System Simulator.

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

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

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

## 27.22.4.16.1.4.2 Procedure

Expected Sequence 1.1 (SET UP EVENT LIST, Set Up Call Connect Event)

| Step         | Direction    | MESSAGE / Action                                         | Comments               |
|--------------|--------------|----------------------------------------------------------|------------------------|
| 1            | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1 |                        |
| 2            | ME → SIM     | FETCH                                                    |                        |
| 3            | SIM → ME     | PROACTIVE COMMAND : SET<br>UP EVENT LIST 1.1.1           |                        |
| 4            | ME → SIM     | TERMINAL RESPONSE : SET UP<br>EVENT LIST 1.1.1           |                        |
| 5            | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                           |                        |
| <del>6</del> |              |                                                          |                        |
| 6            | SS → ME      | SETUP 1.1.1                                              | [Incoming call alert]  |
| 7            | USER →<br>ME | User shall accept the incoming call                      |                        |
| 8            | ME → SS      | CONNECT 1.1.1                                            |                        |
| 9            | ME → SIM     | ENVELOPE: EVENT<br>DOWNLOAD CALL CONNECTED<br>1.1.1      | [Call Connected Event] |
| 10           | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                           |                        |



**PROACTIVE COMMAND : SET UP EVENT LIST 1.1.1**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Event list  
 Event 1: Call Connected

## Coding:

BER-TLV: D0 0C 81 03 01 05 00 82 02 81 82 99  
 01 01

**TERMINAL RESPONSE : SET UP EVENT LIST 1.1.1**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

## Coding:

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

**SET UP 1.1.1**

Logically:

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

**CONNECT 1.1.1**

Logically:

|                        |       |
|------------------------|-------|
| Transaction identifier |       |
| Value:                 | XX XX |

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

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

Coding:

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

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

| Step | Direction           | MESSAGE / Action                                                         | Comments                                         |
|------|---------------------|--------------------------------------------------------------------------|--------------------------------------------------|
| 1    | SIM → ME            | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.2.1                 |                                                  |
| 2    | ME → SIM            | FETCH                                                                    |                                                  |
| 3    | SIM → ME            | PROACTIVE COMMAND : SET<br>UP EVENT LIST 1.2.1                           | [Call Connected and Call Disconnected<br>Events] |
|      | ME → SIM            | TERMINAL RESPONSE : SET UP<br>EVENT LIST 1.2.1                           |                                                  |
| 4    | SIM → ME            | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.2.2                 |                                                  |
| 5    | ME → SIM            | FETCH                                                                    |                                                  |
| 6    | SIM → ME            | PROACTIVE COMMAND : SET<br>UP EVENT LIST 1.2.2                           | [Call Disconnected Event]                        |
| 7    | ME → SIM            | TERMINAL RESPONSE : SET UP<br>EVENT LIST 1.2.2                           |                                                  |
| 8    | SIM → ME            | PROACTIVE SIM SESSION<br>ENDED                                           |                                                  |
| ...  |                     |                                                                          |                                                  |
| 10   | SS → ME             | SETUP 1.2.2                                                              | [Incoming call alert]                            |
| 11   | USER →<br>ME        | User shall accept the incoming call                                      |                                                  |
| 12   | ME → SS             | CONNECT 1.2.2                                                            |                                                  |
| ...  |                     |                                                                          |                                                  |
| 13   | SS → ME<br>ME → SIM | DISCONNECT 1.2.2<br>ENVELOPE: EVENT<br>DOWNLOAD CALL<br>DISCONNECT 1.2.2 | [Call Disconnect Event]                          |
| 14   | SIM → ME            | PROACTIVE SIM SESSION<br>ENDED                                           |                                                  |

**PROACTIVE COMMAND : SET UP EVENT LIST 1.2.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: SIM  
 Destination device: ME

Event list

Event 1: Call Connected  
 Event 2: Call Disconnected

Coding:

BER-TLV: D0 0D 81 03 01 05 00 82 02 81 82 99  
 02 01 02

**TERMINAL RESPONSE : SET UP EVENT LIST 1.2.1**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

## Coding:

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

**PROACTIVE COMMAND : SET UP EVENT LIST 1.2.2**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Event list  
 Event 1: Call Disconnected

## Coding:

BER-TLV: D0 0C 81 03 01 05 00 82 02 81 82 99  
 01 02

**TERMINAL RESPONSE : SET UP EVENT LIST 1.2.2**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

## Coding:

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

**SET UP 1.2.2**

Logically:

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

**CONNECT 1.2.2**

Logically:

|                        |       |
|------------------------|-------|
| Transaction identifier |       |
| Value:                 | XX XX |

**DISCONNECT 1.2.2**

Logically:

|                        |       |
|------------------------|-------|
| Transaction identifier |       |
| Value:                 | XX XX |
| Cause                  |       |
| Value:                 | XX XX |

**ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2**

Logically:

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

Coding:

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

Expected Sequence 1.3 (SET UP EVENT LIST, Remove Event)

| Step | Direction    | MESSAGE / Action                                         | Comments               |
|------|--------------|----------------------------------------------------------|------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.3.1 |                        |
| 2    | ME → SIM     | FETCH                                                    |                        |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP EVENT LIST 1.3.1           | [Call Connected Event] |
|      | ME → SIM     | TERMINAL RESPONSE : SET UP<br>EVENT LIST 1.3.1           |                        |
| 4    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.3.1 |                        |
| 5    | ME → SIM     | FETCH                                                    |                        |
| 6    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP EVENT LIST 1.3.2           | [Remove Event]         |
| 7    | ME → SIM     | TERMINAL RESPONSE : SET UP<br>EVENT LIST 1.3.2           |                        |
| 8    | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                           |                        |
| ...  |              |                                                          |                        |
| 10   | SS → ME      | SETUP 1.3.2                                              | [Incoming call alert]  |
| 11   | USER →<br>ME | User shall accept the incoming call                      |                        |
| 12   | ME → SS      | CONNECT 1.3.2                                            |                        |
| ...  |              |                                                          |                        |
| 13   | SS → ME      | DISCONNECT 1.3.2                                         |                        |

**PROACTIVE COMMAND : SET UP EVENT LIST 1.3.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: SIM  
 Destination device: ME

Event list

Event 1: Call Connected

Coding:

BER-TLV: D0 0C 81 03 01 05 00 82 02 81 82 99  
 01 01

**TERMINAL RESPONSE : SET UP EVENT LIST 1.3.1**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

## Coding:

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

**PROACTIVE COMMAND : SET UP EVENT LIST 1.3.2**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Event list: Empty

## Coding:

BER-TLV: D0 0B 81 03 01 05 00 82 02 81 82 99  
 00

**TERMINAL RESPONSE : SET UP EVENT LIST 1.3.2**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

## Coding:

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

**SET UP 1.3.2**

Logically:

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

**CONNECT 1.3.2**

Logically:

Transaction identifier  
 Value: XX XX

**DISCONNECT 1.3.2**

Logically:

Transaction identifier  
 Value: XX XX  
 Cause  
 Value: XX XX

Expected Sequence 1.4 (SET UP EVENT LIST, Remove Event on ME Power Cycle)

| Step | Direction    | MESSAGE / Action                                         | Comments               |
|------|--------------|----------------------------------------------------------|------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.4.1 |                        |
| 2    | ME → SIM     | FETCH                                                    |                        |
| 3    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP EVENT LIST 1.4.1           | [Call Connected Event] |
|      | ME → SIM     | TERMINAL RESPONSE : SET UP<br>EVENT LIST 1.4.1           |                        |
| 4    | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                           |                        |
| ...  |              |                                                          |                        |
| 5    | User →<br>ME | Power off ME                                             |                        |
| 6    | User →<br>ME | Power on ME                                              |                        |
| ...  |              |                                                          |                        |
| 7    | SS → ME      | SETUP 1.4A                                               | [Incoming call alert]  |
| 8    | USER →<br>ME | User shall accept the incoming call                      |                        |
| 9    | ME → SS      | CONNECT 1.4.1                                            |                        |
| ...  |              |                                                          |                        |
| 10   | SS → ME      | DISCONNECT 1.4.1                                         |                        |



**PROACTIVE COMMAND : SET UP EVENT LIST 1.4.1**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Event list  
 Event 1: Call Connected

## Coding:

BER-TLV: D0 0C 81 03 01 05 00 82 02 81 82 99  
 01 01

**TERMINAL RESPONSE : SET UP EVENT LIST 1.4.1**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

## Coding:

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

**SET UP 1.4.1**

Logically:

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

**CONNECT 1.4.1**

Logically:

|                        |       |
|------------------------|-------|
| Transaction identifier |       |
| Value:                 | XX XX |

**DISCONNECT 1.4.1**

Logically:

|                        |       |
|------------------------|-------|
| Transaction identifier |       |
| Value:                 | XX XX |
| Cause                  |       |
| Value:                 | XX XX |

**27.22.4.16.1.5 Test Requirement**

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

**27.22.4.17 PERFORM CARD APDU****27.22.4.17.1 PERFORM CARD APDU (normal)****27.22.4.17.1.1 Definition and applicability**

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

**27.22.4.17.1.2 Conformance requirement**

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

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

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

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

### 27.22.4.17.1.3 Test Purpose

To verify that the ME sends an APDU command to the additional card identified in the PERFORM CARD APDU proactive SIM command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the SIM.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

In this particular case a special Test-SIM (TestSIM) with T=0 protocol is chosen as additional card for the additional ME card reader (for coding of the TestSIM see Annex X).

### 27.22.4.17.1.4 Method of test

#### 27.22.4.17.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The TestSIM is inserted in the additional ME card reader.

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

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

The elementary files of the TestSIM are coded as defined in Annex X.

27.22.4.17.1.4.2 Procedure

Expected Sequence 1.1 (PERFORM CARD APDU, card reader 1, additional card inserted, Select MF and Get Response)

| Step | Direction    | MESSAGE / Action                                         | Comments                                                           |
|------|--------------|----------------------------------------------------------|--------------------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: POWER ON CARD<br>1.1.1     |                                                                    |
| 2    | ME → SIM     | FETCH                                                    |                                                                    |
| 3    | SIM → ME     | PROACTIVE COMMAND:<br>POWER ON CARD 1.1.1                | [Power on card reader 1]                                           |
| 4    | ME →<br>SIM2 | RESET CARD                                               | [Perform electrical initialisation]                                |
| 5    | SIM2 →<br>ME | ANSWER TO RESET 1.1                                      | [ATR]                                                              |
| 6    | ME → SIM     | TERMINAL RESPONSE: POWER<br>ON CARD 1.1.1                | [ATR]                                                              |
| 7    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PERFORM CARD<br>APDU 1.1.1 |                                                                    |
| 8    | ME → SIM     | FETCH                                                    |                                                                    |
| 9    | SIM → ME     | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.1.1            | [Select Masterfile]                                                |
| 10   | ME →<br>SIM2 | C-APDU: SELECT 1.1                                       | [Select Masterfile]                                                |
| 11   | SIM2 →<br>ME | R-APDU: SELECT 1.1                                       | [Command performed successfully – length<br>'1B' of response data] |
| 12   | ME → SIM     | TERMINAL RESPONSE:<br>PERFORM CARD APDU 1.1.1            |                                                                    |
| 13   | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PERFORM CARD<br>APDU 1.1.2 |                                                                    |
| 14   | ME → SIM     | FETCH                                                    |                                                                    |
| 15   | SIM → ME     | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.1.2            | [Get Response with length '1B']                                    |
| 16   | ME →<br>SIM2 | C-APDU: GET RESPONSE 1.1                                 | [Get Response with length '1B']                                    |
| 17   | SIM2 →<br>ME | R-APDU: GET RESPONSE 1.1                                 | [Response data with length '1B']                                   |
| 18   | ME → SIM     | TERMINAL RESPONSE:<br>PERFORM CARD APDU 1.1.2            | [Response data with length '1B']                                   |

**PROACTIVE COMMAND POWER ON CARD 1.1.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: Card reader 1

Coding:

BER-TLV: D0 09 81 03 01 31 00 82 02 81 11

ANSWER TO RESET 1.1

## Logically:

TS (Initial character): '3B'  
 T0 (Format character): '86' (Following interface characters: TD(1), number of historical characters: 6)  
 TD1: '00' (Following interface characters: none, Transfer protocol: T=0)  
 T1: 91  
 T2: 99  
 T3: 00  
 T4: 12  
 T5: C1  
 T6: 00

## Coding:

BER-TLV: 3B 86 00 91 99 00 12 C1 00

**TERMINAL RESPONSE : POWER ON CARD 1.1.1**

## Logically:

Command details  
   Command number: 1  
   Command type: POWER ON CARD  
   Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: SIM  
 Result  
   General Result: Command performed successfully  
 Card ATR  
 TS (Initial character): '3B'  
 T0 (Format character): '86' (Following interface characters: TD(1), number of historical characters: 6)  
 TD1: '00' (Following interface characters: none, Transfer protocol: T=0)  
 T1: 91  
 T2: 99  
 T3: 00  
 T4: 12  
 T5: C1  
 T6: 00

## Coding:

BER-TLV: 81 03 01 31 00 82 02 82 81 83 01 00  
           A1 09 3B 86 00 91 99 00 12 C1 00

**PROACTIVE COMMAND PERFORM CARD APDU 1.1.1**

Logically:

## Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: Card Reader 1

## C-APDU

Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: Master File

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 12 | 81 | 03 | 01 | 30 | 00 | 82 | 02 | 81 | 11 | A2 |
|          | 07 | A0 | A4 | 00 | 00 | 02 | 3F | 00 |    |    |    |    |

C-APDU: SELECT 1.1

Logically:

## C-APDU

Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: Master File

Coding:

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

R-APDU: SELECT 1.1

Logically:

Status Words SW1 / SW2: Command performed successfully – length '1B' of response data

Coding:

BER-TLV: 9F 1B

**TERMINAL RESPONSE : PERFORM CARD APDU 1.1.1**

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

R-APDU

Status Words

SW1 / SW2: Command performed successfully – length '1B' of response data

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 30 | 00 | 82 | 02 | 11 | 81 | 83 | 01 | 00 |
|          | A3 | 02 | 9F | 1B |    |    |    |    |    |    |    |    |

**PROACTIVE COMMAND PERFORM CARD APDU 1.1.2**

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: '00'

Device identities

Source device: SIM  
 Destination device: Card Reader 1

C-APDU

Class: 'A0'  
 Instruction: GET RESPONSE  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Le: '1B'

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 10 | 81 | 03 | 01 | 30 | 00 | 82 | 02 | 81 | 11 | A2 |
|          | 05 | A0 | C0 | 00 | 00 | 1B |    |    |    |    |    |    |

C-APDU: GET RESPONSE 1.1

Logically:

C-APDU  
 Class: 'A0'  
 Instruction: GET RESPONSE  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Le: '1B'

Coding:

BER-TLV: A0 C0 00 00 1B

R-APDU: GET RESPONSE 1.1

Logically:

R-APDU data  
 RFU: '00 00'  
 Not allocated memory: '653 bytes'  
 File ID: Master File  
 Type of file: MF  
 RFU: 00 00 22 FF 01'  
 Length of following data: 14 bytes'  
 File characteristics:  
 Clock Stop: Not allowed  
 Min. frequency for GSM algorithm: 13/8 MHz  
 Technology identification: 3V Technology SIM  
 CHV1: disabled  
 DFs in current directory: 2  
 EFs in current directory: 8  
 Number of CHV and admin. Codes: 3  
 RFU byte 18: 00  
 CHV1 status:  
 False representations remaining: 3  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 Unlock CHV1 status:  
 False representations remaining: 10  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 CHV2 status:  
 False representations remaining: 3  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 Unlock CHV2 status:  
 False representations remaining: 10  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 RFU bytes 23: 00  
 Reserved for admin. management: 00 83 00 FF  
 Status Words  
 SW1 / SW2: Normal ending of command

Coding:

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



**TERMINAL RESPONSE : PERFORM CARD APDU 1.1.2**

Logically:

Command details  
 Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully

R-APDU data  
 RFU: '00 00'  
 Not allocated memory: '653 bytes'  
 File ID: Master File  
 Type of file: MF  
 RFU: 00 00 22 FF 01'  
 Length of following data: 14 bytes'  
 File characteristics:  
 Clock Stop: Not allowed  
 Min. frequency for GSM algorithm: 13/8 MHz  
 Technology identification: 3V Technology SIM  
 CHV1: disabled  
 DFs in current directory: 2  
 EFs in current directory: 8  
 Number of CHV and admin. Codes: 3  
 RFU byte 18: 00  
 CHV1 status:  
 False representations remaining: 3  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 Unlock CHV1 status:  
 False representations remaining: 10  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 CHV2 status:  
 False representations remaining: 3  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 Unlock CHV2 status:  
 False representations remaining: 10  
 RFU-bits 7-5: 000  
 Secret code: Initialised  
 RFU bytes 23: 00  
 Reserved for admin. management: 00 83 00 FF

Status Words  
 SW1 / SW2: Normal ending of command

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 30 | 00 | 82 | 02 | 11 | 81 | 83 | 01 | 00 |
|          | A3 | 0F | 00 | 00 | 02 | 8D | 3F | 00 | 01 | 00 | 00 | 22 |
|          | FF | 01 | 0E | 90 | 00 |    |    |    |    |    |    |    |

Expected Sequence 1.2 (PERFORM CARD APDU, card reader 1, additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN)

| Step | Direction    | MESSAGE / Action                                         | Comments                            |
|------|--------------|----------------------------------------------------------|-------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: POWER ON CARD 1.1          |                                     |
| 2    | ME → SIM     | FETCH                                                    |                                     |
| 3    | SIM → ME     | PROACTIVE COMMAND:<br>POWER ON CARD 1.1                  | [Power on card reader 1]            |
| 4    | ME →<br>SIM2 | RESET CARD                                               | [Perform electrical initialisation] |
| 5    | SIM2 →<br>ME | ANSWER TO RESET 1.1                                      | [ATR]                               |
| 6    | ME → SIM     | TERMINAL RESPONSE: POWER<br>ON CARD 1.1                  | [ATR]                               |
| 7    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PERFORM CARD<br>APDU 1.2.1 |                                     |
| 8    | ME → SIM     | FETCH                                                    |                                     |
| 9    | SIM → ME     | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.2.1            | [Select GSM]                        |
| 10   | ME →<br>SIM2 | C-APDU: SELECT 1.2a                                      | [Select GSM]                        |
| 11   | SIM2 →<br>ME | R-APDU: SELECT 1.2a                                      |                                     |
| 12   | ME → SIM     | TERMINAL RESPONSE:<br>PERFORM CARD APDU 1.2.1            |                                     |
| 13   | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PERFORM CARD<br>APDU 1.2.2 |                                     |
| 14   | ME → SIM     | FETCH                                                    |                                     |
| 15   | SIM → ME     | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.2.2            | [Select PLMN]                       |
| 16   | ME →<br>SIM2 | C-APDU: SELECT 1.2b                                      | [Select PLMN]                       |
| 17   | SIM2 →<br>ME | R-APDU: SELECT 1.2b                                      |                                     |
| 18   | ME → SIM     | TERMINAL RESPONSE:<br>PERFORM CARD APDU 1.2.2            |                                     |
| 19   | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PERFORM CARD<br>APDU 1.2.3 |                                     |
| 20   | ME → SIM     | FETCH                                                    |                                     |
| 21   | SIM → ME     | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.2.3            | [Update Binary]                     |
| 22   | ME →<br>SIM2 | C-APDU: UPDATE BINARY 1.2                                | [Update Binary]                     |
| 23   | SIM2 →<br>ME | R-APDU: UPDATE BINARY 1.2                                |                                     |
| 24   | ME → SIM     | TERMINAL RESPONSE:<br>PERFORM CARD APDU 1.2.3            |                                     |
| 25   | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PERFORM CARD<br>APDU 1.2.4 |                                     |
| 26   | ME → SIM     | FETCH                                                    |                                     |
| 27   | SIM → ME     | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.2.4            | [Read Binary]                       |
| 28   | ME →<br>SIM2 | C-APDU: READ BINARY 1.2                                  | [Read Binary]                       |
| 29   | SIM2 →<br>ME | R-APDU: READ BINARY 1.2                                  |                                     |
| 30   | ME → SIM     | TERMINAL RESPONSE:<br>PERFORM CARD APDU 1.2.4            |                                     |
| 31   | SIM → ME     | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.2.5            | [Update Binary]                     |

|    |              |                                               |                 |
|----|--------------|-----------------------------------------------|-----------------|
| 32 | ME →<br>SIM2 | C-APDU: UPDATE BINARY 1.2a                    | [Update Binary] |
| 33 | SIM2 →<br>ME | R-APDU: UPDATE BINARY 1.2                     |                 |
| 34 | ME → SIM     | TERMINAL RESPONSE:<br>PERFORM CARD APDU 1.2.3 |                 |

### PROACTIVE COMMAND PERFORM CARD APDU 1.2.1

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities

Source device: SIM  
 Destination device: Card Reader 1

C-APDU

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

Coding:

```

BER-TLV:  D0 12 81 03 01 30 00 82 02 81 11 A2
           07 A0 A4 00 00 02 7F 20
  
```

### PROACTIVE COMMAND : PERFORM CARD APDU 1.2.2

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities

Source device: SIM  
 Destination device: Card Reader 1

C-APDU

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

Coding:

```

BER-TLV:  D0 12 81 03 01 30 00 82 02 81 11 A2
           07 A0 A4 00 00 02 6F 30
  
```

**PROACTIVE COMMAND : PERFORM CARD APDU 1.2.3**

Logically:

## Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: Card Reader 1

## C-APDU

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

Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F  
 10 11 12 13 14 15 16 17'

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 28 | 81 | 03 | 01 | 30 | 00 | 82 | 02 | 81 | 11 | A2 |
|          | 1D | A0 | D6 | 00 | 00 | 18 | 00 | 01 | 02 | 03 | 04 | 05 |
|          | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F | 10 | 11 |
|          | 12 | 13 | 14 | 15 | 16 | 17 |    |    |    |    |    |    |

**PROACTIVE COMMAND : PERFORM CARD APDU 1.2.4**

Logically:

## Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

## Device identities

Source device: SIM  
 Destination device: Card Reader 1

## C-APDU

Class: 'A0'  
 Instruction: READ BINARY  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Le: '18'

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 10 | 81 | 03 | 01 | 30 | 00 | 82 | 02 | 81 | 11 | A2 |
|          | 05 | A0 | B0 | 00 | 00 | 18 |    |    |    |    |    |    |

**PROACTIVE COMMAND : PERFORM CARD APDU 1.2.5**

Logically:

```

Command details
  Command number:      1
  Command type:        PERFORM CARD APDU
  Command qualifier:   "00"
Device identities
  Source device:       SIM
  Destination device:  Card Reader 1
C-APDU
  Class:               'A0'
  Instruction:          UPDATE BINARY
  P1 parameter:        '00'
  P2 parameter:        '00'
  Lc:                  '18'
Data:                  'FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF'
                      'FF FF FF FF FF FF FF FF'

```

Coding:

```

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

```

## C-APDU: SELECT 1.2a

Logically:

```

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

```

Coding:

```

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

```

## C-APDU: SELECT 1.2b

Logically:

```

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

```

Coding:

```

BER-TLV:  A0  A4  00  00  02  6F  30

```

## C-APDU: UPDATE BINARY 1.2

Logically:

C-APDU

Class: 'A0'  
 Instruction: UPDATE BINARY  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '18'  
 Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F  
 10 11 12 13 14 15 16 17'

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | A0 | D6 | 00 | 00 | 18 | 00 | 01 | 02 | 03 | 04 | 05 | 06 |
|          | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F | 10 | 11 | 12 |
|          | 13 | 14 | 15 | 16 | 17 |    |    |    |    |    |    |    |

C-APDU: READ BINARY 1.2

Logically:

C-APDU

Class: 'A0'  
 Instruction: READ BINARY  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Le: '18'

Coding:

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

C-APDU: UPDATE BINARY 1.2a

Logically:

C-APDU

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

Coding:

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

R-APDU: SELECT 1.2a

Logically:

Status Words

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

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 9F | 1B |
|----------|----|----|

R-APDU: SELECT 1.2b

Logically:

Status Words

SW1 / SW2:

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

Coding:

BER-TLV: 9F 0F

R-APDU: UPDATE BINARY 1.2

Logically:

Status Words

SW1 / SW2:

Normal ending of command

Coding:

BER-TLV: 90 00

R-APDU: READ BINARY 1.2

Logically:

R-APDU data

Data:

'00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F  
10 11 12 13 14 15 16 17 '

Status Words

SW1 / SW2:

Normal ending of command

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B |
|          | 0C | 0D | 0E | 0F | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|          | 90 | 00 |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : PERFORM CARD APDU 1.2.1**

Logically:

Command details

Command number:

1

Command type:

PERFORM CARD APDU

Command qualifier:

"00"

Device identities

Source device:

ME

Destination device:

SIM

Result

General Result:

Command performed successfully

R-APDU

Status Words

SW1 / SW2:

Command performed successfully – length 1B of response data

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 30 | 00 | 82 | 02 | 11 | 81 | 83 | 01 | 00 |
|          | A3 | 02 | 9F | 1B |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : PERFORM CARD APDU 1.2.2**

## Logically:

## Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## R-APDU

## Status Words

SW1 / SW2: Command performed successfully – length 0F of response data

## Coding:

BER-TLV: 81 03 01 30 00 82 02 11 81 83 01 00  
 A3 02 9F 0F

**TERMINAL RESPONSE : PERFORM CARD APDU 1.2.3**

## Logically:

## Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

## R-APDU

## Status Words

SW1 / SW2: Normal ending of command

## Coding:

BER-TLV: 81 03 01 30 00 82 02 11 81 83 01 00  
 A3 02 90 00



**TERMINAL RESPONSE : PERFORM CARD APDU 1.2.4**

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

R-APDU

R-APDU data

Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F  
 10 11 12 13 14 15 16 17 '

Status Words

SW1 / SW2: Normal ending of command

Coding:

```

BER-TLV:  81  03  01  30  00  82  02  11  81  83  01  00
          A2  81  EF  A0  D6  00  00  EC  00  01  02  03
          04  05  06  07  08  09  0A  0B  0C  0D  0E  0F
          10  11  12  13  14  15  16  17  90  00
    
```

Expected Sequence 1.3 (PERFORM CARD APDU, card reader 1, card inserted, card powered off)

| Step | Direction    | MESSAGE / Action                                        | Comments                  |
|------|--------------|---------------------------------------------------------|---------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: POWER OFF CARD<br>1.3.1   |                           |
| 2    | ME → SIM     | FETCH                                                   |                           |
| 3    | SIM → ME     | PROACTIVE COMMAND:<br>POWER OFF CARD 1.3.1              | [Power off card reader 1] |
| 4    | ME →<br>SIM2 | POWER OFF CARD                                          | [Power off card reader 1] |
| 5    | ME → SIM     | TERMINAL RESPONSE: POWER<br>OFF CARD 1.3.1              | [Successful]              |
| 6    | ME           | SIM2 is powered off from ME card<br>reader              |                           |
| 7    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: PEFORM CARD<br>APDU 1.1.1 |                           |
| 8    | ME → SIM     | FETCH                                                   |                           |
| 9    | SIM → ME     | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.1.1           | [Select Master File]      |
| 10   | ME → SIM     | TERMINAL RESPONSE:<br>PERFORM CARD APDU 1.3.1           | [Card powered off]        |

**PROACTIVE COMMAND : POWER OFF CARD 1.3.1**

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: Card reader 1

Coding:

BER-TLV: D0 09 81 03 01 32 00 82 02 81 11

**TERMINAL RESPONSE : POWER OFF CARD 1.3.1**

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

**TERMINAL RESPONSE : PERFORM CARD APDU 1.3.1**

Logically:

## Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: MultipleCard commands error  
 Additional information: Card powered off

Coding:

BER-TLV: 81 03 01 32 00 82 02 82 81 02 38  
 04

Expected Sequence 1.4 (PERFORM CARD APDU, card reader 1, no card inserted)

| Step | Direction | MESSAGE / Action                                        | Comments             |
|------|-----------|---------------------------------------------------------|----------------------|
| 1    | ME        | SIM2 is removed from ME card reader                     |                      |
| 2    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: PEFORM CARD<br>APDU 1.1.1 |                      |
| 3    | ME → SIM  | FETCH                                                   |                      |
| 4    | SIM → ME  | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.1.1           | [Select Master File] |
| 5    | ME → SIM  | TERMINAL RESPONSE:<br>PERFORM CARD APDU 1.4.1           | [No card inserted]   |

#### TERMINAL RESPONSE : PERFORM CARD APDU 1.4.1

Logically:

Command details

Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: MultipleCard commands error  
 Additional information: Card removed or not present

Coding:

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

Expected Sequence 1.5 (PERFORM CARD APDU, card reader 7 (which is not the valid card reader identifier of the additional ME card reader))

| Step | Direction | MESSAGE / Action                                        | Comments                     |
|------|-----------|---------------------------------------------------------|------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: PEFORM CARD<br>APDU 1.5.1 | [invalid card reader ID]     |
| 3    | ME → SIM  | FETCH                                                   |                              |
| 4    | SIM → ME  | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.5.1           | [Select Master File]         |
| 5    | ME → SIM  | TERMINAL RESPONSE:<br>PERFORM CARD APDU 1.5.1           | [Specified reader not valid] |

**PROACTIVE COMMAND:: PERFORM CARD APDU 1.1.1**

Logically:

```

Command details
  Command number:      1
  Command type:        PERFORM CARD APDU
  Command qualifier:   "00"
Device identities
  Source device:       SIM
  Destination device:  Card Reader 7
C-APDU
  Class:               'A0'
  Instruction:          SELECT
  P1 parameter:        '00'
  P2 parameter:        '00'
  Lc:                  '02'
  Data:                Master File
    
```

Coding:

```

BER-TLV:  D0 12 81 03 01 30 00 82 02 81 17 A2
           07 A0 A4 00 00 02 3F 00
    
```

**C-APDU: SELECT 1.1**

Logically:

```

C-APDU
  Class:               'A0'
  Instruction:          SELECT
  P1 parameter:        '00'
  P2 parameter:        '00'
  Lc:                  '02'
  Data:                Master File
    
```

Coding:

```

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

**TERMINAL RESPONSE : PERFORM CARD APDU 1.5.1**

Logically:

```

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

Coding:

```

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

## 27.22.4.17.1.5 Test Requirements

The ME shall operate in the manner defined in expected sequences

## 27.22.4.17.2 PERFORM CARD APDU (detachable card reader)

## 27.22.4.17.2.1 Definition and applicability

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

## 27.22.4.17.2.2 Conformance requirement

## 27.22.4.17.2.3 Test Purpose

To verify that the ME sends an APDU command to the additional card identified in the PERFORM CARD APDU proactive SIM command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the SIM.

## 27.22.4.17.2.4 Method of test

## 27.22.4.17.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

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

The card reader shall be detached from the ME.

## 27.22.4.17.2.4.2 Procedure

Expected Sequence 2.1 (PERFORM CARD APDU, card reader 1, card reader detached)

| Step | Direction | MESSAGE / Action                                        | Comments               |
|------|-----------|---------------------------------------------------------|------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: PEFORM CARD<br>APDU 2.1.1 |                        |
| 2    | ME → SIM  | FETCH                                                   |                        |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>PERFORM CARD APDU 1.1.1           | [Select Master File]   |
| 4    | ME → SIM  | TERMINAL RESPONSE:<br>PERFORM CARD APDU 2.1.1           | [Card reader detached] |

**PROACTIVE COMMAND : PERFORM CARD APDU 2.1.1**

Logically:

Command details  
 Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities  
 Source device: SIM  
 Destination device: Card Reader 1

C-APDU  
 Class: 'A0'  
 Instruction: SELECT  
 P1 parameter: '00'  
 P2 parameter: '00'  
 Lc: '02'  
 Data: Master File

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 12 | 81 | 03 | 01 | 30 | 00 | 82 | 02 | 81 | 11 | A2 |
|          | 07 | A0 | A4 | 00 | 00 | 02 | 3F | 00 |    |    |    |    |

**TERMINAL RESPONSE : PERFORM CARD APDU 2.1.1**

Logically:

Command details  
 Command number: 1  
 Command type: PERFORM CARD APDU  
 Command qualifier: "00"

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: MultipleCard commands error  
 Additional information: Card reader removed or not present

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 30 | 00 | 82 | 02 | 82 | 81 | 83 | 02 |
|          | 38 | 01 |    |    |    |    |    |    |    |    |    |

**27.22.4.17.2.5 Test Requirements**

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

## 27.22.4.18 POWER OFF CARD

### 27.22.4.18.1 POWER OFF CARD (normal)

#### 27.22.4.18.1.1 Definition and applicability

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

#### 27.22.4.18.1.2 Conformance requirement

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

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

:

#### 27.22.4.18.1.3 Test Purpose

To verify that the ME closes a session with the additional card identified in the POWER OFF CARD proactive SIM command, and successfully returns result in the TERMINAL RESPONSE command send to the SIM.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

#### 27.22.4.18.1.4 Method of test

##### 27.22.4.18.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The ME card reader is connected to the second SIM Simulator (SIM2).

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

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

Prior to this test the ME shall have powered on the second SIM Simulator (SIM2).

27.22.4.18.1.4.2 Procedure

Expected Sequence 1.1 (POWER OFF CARD, card reader 1)

| Step | Direction    | MESSAGE / Action                                      | Comments                  |
|------|--------------|-------------------------------------------------------|---------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: POWER OFF CARD<br>1.1.1 |                           |
| 2    | ME → SIM     | FETCH                                                 |                           |
| 3    | SIM → ME     | PROACTIVE COMMAND :<br>POWER OFF CARD 1.1.1           | [Power off card reader 1] |
| 4    | ME →<br>SIM2 | POWER OFF CARD                                        | [Power off card reader 1] |
| 5    | ME → SIM     | TERMINAL RESPONSE :<br>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<br>PENDING: POWER OFF CARD<br>1.1.1 |                           |
| 3    | ME → SIM  | FETCH                                                 |                           |
| 4    | SIM → ME  | PROACTIVE COMMAND :<br>POWER OFF CARD 1.1.1           | [Power off card reader 1] |
| 5    | ME → SIM  | TERMINAL RESPONSE :<br>POWER OFF CARD 1.2.1           | [No card inserted]        |

### TERMINAL RESPONSE : POWER OFF CARD 1.2.1

Logically:

Command details

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

Device identities

Source device: ME  
Destination device: SIM

Result

General Result: MultipleCard commands error  
Additional information: Card removed or not present

Coding:

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

#### 27.22.4.18.1.5 Test Requirements

The ME shall operate in the manner defined in expected sequences

#### 27.22.4.18.2 POWER OFF CARD (detachable card reader)

##### 27.22.4.18.2.1 Definition and applicability

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

##### 27.22.4.18.2.2 Conformance requirement

##### 27.22.4.18.2.3 Test Purpose

To verify that the ME closes a session with the additional card identified in the POWER OFF CARD proactive SIM command, and successfully returns result in the TERMINAL RESPONSE command send to the SIM.

##### 27.22.4.18.2.4 Method of test

###### 27.22.4.18.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The ME card reader is connected to the second SIM Simulator (SIM2).

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

Prior to this test the ME shall have powered on the second SIM Simulator (SIM2).

The card reader shall be detached from the ME.

#### 27.22.4.18.2.4.2 Procedure

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

| Step | Direction | MESSAGE / Action                                      | Comments                             |
|------|-----------|-------------------------------------------------------|--------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: POWER OFF CARD<br>2.1.1 |                                      |
| 2    | ME → SIM  | FETCH                                                 |                                      |
| 3    | SIM → ME  | PROACTIVE COMMAND :<br>POWER OFF CARD 2.1.1           | [Power off card reader 1]            |
| 4    | ME → SIM  | TERMINAL RESPONSE :<br>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<br>PENDING: POWER ON CARD<br>1.1.1 |                                     |
| 2    | ME → SIM     | FETCH                                                |                                     |
| 3    | SIM → ME     | PROACTIVE COMMAND :<br>POWER ON CARD 1.1.1           | [Power on card reader 1]            |
| 4    | ME →<br>SIM2 | RESET CARD                                           | [Perform electrical initialisation] |
| 5    | SIM2 →<br>ME | ANSWER TO RESET 1.1.1                                | [ATR]                               |
| 6    | ME → SIM     | TERMINAL RESPONSE :<br>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<br>PENDING: POWER ON CARD<br>1.1.1 |                                     |
| 2    | ME → SIM     | FETCH                                                |                                     |
| 3    | SIM → ME     | PROACTIVE COMMAND :<br>POWER ON CARD 1.1.1           | [Power on card reader 1]            |
| 4    | ME →<br>SIM2 | RESET CARD                                           | [Perform electrical initialisation] |
| 5    | SIM2 →<br>ME | NO ATR                                               | [No ATR]                            |
| 6    | ME → SIM     | TERMINAL RESPONSE :<br>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<br>PENDING: POWER ON CARD 1.1.1 |                               |
| 3    | ME → SIM  | FETCH                                             |                               |
| 4    | SIM → ME  | PROACTIVE COMMAND :<br>POWER ON CARD 1.1.1        | [Power on card reader 1]      |
| 5    | ME → SIM  | TERMINAL RESPONSE :<br>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

## 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<br>PENDING: POWER ON CARD<br>2.1.1 |                                      |
| 2    | ME → SIM  | FETCH                                                |                                      |
| 3    | SIM → ME  | PROACTIVE COMMAND :<br>POWER ON CARD 2.1.1           | [Power on card reader 1]             |
| 4    | ME → SIM  | TERMINAL RESPONSE :<br>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<br>PENDING: POWER ON CARD<br>1.1.1                                                                                                                                                                                           |                                                                          |
| 2    | ME → SIM     | FETCH                                                                                                                                                                                                                                          |                                                                          |
| 3    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: POWER ON CARD<br>1.1.1                                                                                                                                                                                           | [Power on card reader 1]                                                 |
| 4    | ME →<br>SIM2 | RESET CARD                                                                                                                                                                                                                                     | [Perform electrical initialisation]                                      |
| 5    | SIM2 →<br>ME | ANSWER TO RESET 1.1.1                                                                                                                                                                                                                          | [ATR]                                                                    |
| 6    | ME → SIM     | TERMINAL RESPONSE :<br>POWER ON CARD 1.1.1                                                                                                                                                                                                     | [ATR]                                                                    |
| 7    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: GET CARD READER<br>STATUS 1.1.1                                                                                                                                                                                  |                                                                          |
| 8    | ME → SIM     | FETCH                                                                                                                                                                                                                                          |                                                                          |
| 9    | SIM → ME     | PROACTIVE COMMAND : GET<br>CARD READER STATUS 1.1.1                                                                                                                                                                                            | [Get Card Reader Status]                                                 |
| 10   | ME → SIM     | TERMINAL RESPONSE : GET<br>CARD READER STATUS 1.1.1a<br>Or<br>TERMINAL RESPONSE : GET<br>CARD READER STATUS 1.1.1b<br>or<br>TERMINAL RESPONSE : GET<br>CARD READER STATUS 1.1.1c<br>or<br>TERMINAL RESPONSE : GET<br>CARD READER STATUS 1.1.1d | [Successful]<br><br>[Successful]<br><br>[Successful]<br><br>[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<br>PENDING: POWER OFF CARD<br>1.2.1                                                                                                                                                                                          |                                                                          |
| 2    | ME → SIM     | FETCH                                                                                                                                                                                                                                          |                                                                          |
| 3    | SIM → ME     | PROACTIVE COMMAND :<br>POWER OFF CARD 1.2.1                                                                                                                                                                                                    | [Power off card reader 1]                                                |
| 4    | ME →<br>SIM2 | POWER OFF CARD                                                                                                                                                                                                                                 | [Power off card reader 1]                                                |
| 5    | ME → SIM     | TERMINAL RESPONSE :<br>POWER OFF CARD 1.2.1                                                                                                                                                                                                    | [Successful]                                                             |
| 6    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: GET CARD READER<br>STATUS 1.1.1                                                                                                                                                                                  |                                                                          |
| 7    | ME → SIM     | FETCH                                                                                                                                                                                                                                          |                                                                          |
| 8    | SIM → ME     | PROACTIVE COMMAND : GET<br>CARD READER STATUS 1.1.1                                                                                                                                                                                            | [Get Card Reader Status]                                                 |
| 9    | ME → SIM     | TERMINAL RESPONSE : GET<br>CARD READER STATUS 1.2.1a<br>Or<br>TERMINAL RESPONSE : GET<br>CARD READER STATUS 1.2.1b<br>or<br>TERMINAL RESPONSE : GET<br>CARD READER STATUS 1.2.1c<br>Or<br>TERMINAL RESPONSE : GET<br>CARD READER STATUS 1.2.1d | [Successful]<br><br>[Successful]<br><br>[Successful]<br><br>[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<br>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          | [Successful]             |
|      |           | Or<br>TERMINAL RESPONSE : GET CARD READER STATUS 1.3.1b    | [Successful]             |
|      |           | or<br>TERMINAL RESPONSE : GET CARD READER STATUS 1.3.1c    | [Successful]             |
|      |           | or<br>TERMINAL RESPONSE : GET CARD READER STATUS 1.3.1d    | [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

## 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<br>PENDING: GET CARD READER<br>STATUS 2.1.1                                                      |                                  |
| 2    | ME → SIM  | FETCH                                                                                                              |                                  |
| 3    | SIM → ME  | PROACTIVE COMMAND : GET<br>CARD READER STATUS 2.1.1                                                                | [Get Card Reader Status]         |
| 4    | ME → SIM  | TERMINAL RESPONSE : GET<br>CARD READER STATUS 2.1.1a<br>or<br>TERMINAL RESPONSE : GET<br>CARD READER STATUS 2.1.1b | [Successful]<br><br>[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 and ENVELOPE TIMER EXPIRATION**

## 27.22.4.21.1 TIMER MANAGEMENT (normal)

## 27.22.4.21.1.1 Definition and applicability

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

## 27.22.4.21.1.2 Conformance Requirement

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

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

## 27.22.4.21.1.3 Test Purpose

To verify that the ME manages correctly its internal timers, start a timer, deactivate a timer or return the current value of a timer according to the Timer Identifier defined in the TIMER MANAGEMENT proactive SIM command.

## 27.22.4.21.1.4 Method of Test

## 27.22.4.21.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

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

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

## 27.22.4.21.1.4.2 Procedure

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

| Step | Direction | MESSAGE / Action                                        | Comments                         |
|------|-----------|---------------------------------------------------------|----------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.1.1 |                                  |
| 2    | ME → SIM  | FETCH                                                   |                                  |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.1.1            | [start timer 1]                  |
| 4    | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.1.1            | [command performed successfully] |
| 5    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.1.2 |                                  |
| 6    | ME → SIM  | FETCH                                                   |                                  |
| 7    | SIM → ME  | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.1.2            | [ask value of timer 1]           |
| 8    | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.1.2            | [command performed successfully] |
| 9    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.1.3 |                                  |
| 10   | ME → SIM  | FETCH                                                   |                                  |
| 11   | SIM → ME  | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.1.3            | [reinitialise timer 1]           |
| 12   | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.1.3            | [command performed successfully] |
| 13   | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.1.4 |                                  |
| 14   | ME → SIM  | FETCH                                                   |                                  |
| 15   | SIM → ME  | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.1.4            | [deactivate timer 1]             |
| 16   | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.1.4            | [command performed successfully] |

**Proactive SIM Command**PROACTIVE COMMAND 1.1.1: **TIMER MANAGEMENT 1.1.1**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 1  
 Timer value:  
 Value of timer: 5 min

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 11 | 81 | 03 | 01 | 27 | 00 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 01 | A5 | 03 | 00 | 50 | 00 |    |    |    |    |    |

**Proactive SIM Command PROACTIVE COMMAND 1.1.2: TIMER MANAGEMENT 1.1.2**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 1

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 27 | 10 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 01 |    |    |    |    |    |    |    |    |    |    |

**Proactive SIM Command PROACTIVE COMMAND 1.1.3: TIMER MANAGEMENT 1.1.3**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 1  
 Timer value:  
 Value of timer: 1min 30sec

Coding :

BER-TLV: D0 11 81 03 01 27 00 82 02 81 82 A4  
 01 01 A5 03 00 10 03

**Proactive SIM Command PROACTIVE COMMAND 1.1.4 : TIMER MANAGEMENT 1.1.4**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 1

Coding :

BER-TLV: D0 0C 81 03 01 27 01 82 02 81 82 A4  
 01 01

**TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.1 and 1.1.3**



## Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Timer identifier:  
 Identifier of timer: 1

## Coding :

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

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.1.2**

## Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Timer identifier:  
 Identifier of timer: 1  
 Timer value:  
 value of timer: a value < to the timer value of command 1.1.1

## Coding :

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

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.1.4**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Timer identifier:  
 Identifier of timer: 1  
 Timer value:  
 value of timer: a value < to the timer value of command 1.1.3

Coding :

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

Expected Sequence 1.2 (TIMER MANAGEMENT, start timer 2 several times, get the current value of the timer and deactivate the timer successfully)

| Step | Direction | MESSAGE / Action                                        | Comments                         |
|------|-----------|---------------------------------------------------------|----------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.2.1 |                                  |
| 2    | ME → SIM  | FETCH                                                   |                                  |
| 3    | SIM → ME  | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.2.1            | [start timer 2]                  |
| 4    | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.2.1            | [command performed successfully] |
| 5    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.2.2 |                                  |
| 6    | ME → SIM  | FETCH                                                   |                                  |
| 7    | SIM → ME  | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.2.2            | [ask value of timer 2]           |
| 8    | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.2.2            | [command performed successfully] |
| 9    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.2.3 |                                  |
| 10   | ME → SIM  | FETCH                                                   |                                  |
| 11   | SIM → ME  | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.2.3            | [reinitialise timer 2]           |
| 12   | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.2.3            | [command performed successfully] |
| 13   | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.2.4 |                                  |
| 14   | ME → SIM  | FETCH                                                   |                                  |
| 15   | SIM → ME  | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.2.4            | [deactivate timer 2]             |
| 16   | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.2.4            | [command performed successfully] |

**Proactive SIM Command PROACTIVE COMMAND 1.2.1: TIMER MANAGEMENT 1.2.1**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 2  
 Timer value:  
 Value of timer: 5 min

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 11 | 81 | 03 | 01 | 27 | 00 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 02 | A5 | 03 | 00 | 50 | 00 |    |    |    |    |    |

**Proactive-SIM CommandPROACTIVE COMMAND 1.2.2: TIMER MANAGEMENT 1.2.2**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 2

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 27 | 10 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 02 |    |    |    |    |    |    |    |    |    |    |

**Proactive-SIM CommandPROACTIVE COMMAND 1.2.3: TIMER MANAGEMENT 1.2.3**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 2  
 Timer value:  
 Value of timer: 1 min 30 sec

Coding:

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

Coding :

BER-TLV: D0 11 81 03 01 27 00 82 02 81 82 A4  
 01 02 A5 03 00 10 03

**Proactive SIM CommandPROACTIVE COMMAND 1.2.4: TIMER MANAGEMENT 1.2.4**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 2

Coding :

BER-TLV: D0 0C 81 03 01 27 01 82 02 81 82 A4  
 01 02

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.2.1 and 1.2.3**

## Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Timer identifier:  
 Identifier of timer: 2

## Coding :

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

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.2.2**

## Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: get the current value of the Timer  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Timer identifier:  
 Identifier of timer: 2  
 Timer value:  
 value of timer: 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:** same as sequences 1.1, 1.2 but with Timer Identifier equal to 3

**Expected Sequence 1.4:** same as sequences 1.1, 1.2, 1.3 but with Timer Identifier equal to 4

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

**Proactive SIM Command**PROACTIVE 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 | 0C | 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**PROACTIVE 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 | 0C | 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 CommandPROACTIVE 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 | 0C | 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~~ PROACTIVE 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 | 0C | 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**PROACTIVE 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 | 0C | 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**PROACTIVE 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 0C 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**PROACTIVE 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 | 0C | 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**PROACTIVE 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 | 0C | 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<br>PENDING: TIMER<br>MANAGEMENT 1.10.1 |                                                           |
| 2    | ME → SIM  | FETCH                                                    |                                                           |
| 3    |           | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.10.1            | [deactivate timer 1]                                      |
| 4    | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.10.1            | [action in contradiction with the current timer<br>state] |
| 5    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.10.2 |                                                           |
| 6    | ME → SIM  | FETCH                                                    |                                                           |
| 7    |           | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.10.2            | [deactivate timer 2]                                      |
| 8    | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.10.2            | [action in contradiction with the current timer<br>state] |
| 9    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.10.3 |                                                           |
| 10   | ME → SIM  | FETCH                                                    |                                                           |
| 11   |           | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.10.3            | [deactivate timer 3]                                      |
| 12   | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.10.3            | [action in contradiction with the current timer<br>state] |
| 13   | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.10.4 |                                                           |
| 14   | ME → SIM  | FETCH                                                    |                                                           |
| 15   |           | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.10.4            | [deactivate timer 4]                                      |
| 16   | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.10.4            | [action in contradiction with the current timer<br>state] |
| 13   | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.10.5 |                                                           |
| 14   | ME → SIM  | FETCH                                                    |                                                           |
| 15   |           | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.10.5            | [deactivate timer 5]                                      |
| 16   | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.10.5            | [action in contradiction with the current timer<br>state] |
| 13   | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.10.6 |                                                           |
| 14   | ME → SIM  | FETCH                                                    |                                                           |
| 15   |           | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.10.6            | [deactivate timer 6]                                      |
| 16   | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.10.6            | [action in contradiction with the current timer<br>state] |
| 13   | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.10.7 |                                                           |
| 14   | ME → SIM  | FETCH                                                    |                                                           |
| 15   |           | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.10.7            | [deactivate timer 7]                                      |
| 16   | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.10.7            | [action in contradiction with the current timer<br>state] |
| 13   | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 1.10.8 |                                                           |
| 14   | ME → SIM  | FETCH                                                    |                                                           |
| 15   |           | PROACTIVE COMMAND:<br>TIMER MANAGEMENT 1.10.8            | [deactivate timer 8]                                      |
| 16   | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 1.10.8            | [action in contradiction with the current timer<br>state] |



**Proactive SIM Command**PROACTIVE 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 | 0C | 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**PROACTIVE COMMAND 1.10.2: TIMER MANAGEMENT 1.10.2

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 2

Coding :

BER-TLV: D0 0C 81 03 01 27 01 82 02 81 82 A4  
 01 02

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.2**

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 CommandPROACTIVE COMMAND 1.10.3: TIMER MANAGEMENT 1.10.3**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 3

Coding :

BER-TLV: D0 0C 81 03 01 27 01 82 02 81 82 A4  
 01 03

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.3**

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 CommandPROACTIVE COMMAND 1.10.4: TIMER MANAGEMENT 1.10.4**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 4

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 27 | 01 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 04 |    |    |    |    |    |    |    |    |    |    |

### **TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.4**

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 CommandPROACTIVE COMMAND 1-10.5: TIMER MANAGEMENT 1.10.5**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

Device identities  
 Source device: SIM  
 Destination device: ME

Timer identifier:  
 Identifier of timer: 5

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 27 | 01 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 05 |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE: TIMER MANAGEMENT 1.10.5**

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 CommandPROACTIVE COMMAND\_1-10.6: TIMER MANAGEMENT\_1.10.6**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 6

Coding :

BER-TLV: D0 0C 81 03 01 27 01 82 02 81 82 A4  
 01 06

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.6**

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 CommandPROACTIVE COMMAND\_1-10.7: TIMER MANAGEMENT\_1.10.7**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 7

Coding :

BER-TLV: D0 0C 81 03 01 27 01 82 02 81 82 A4  
 01 07

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.7**

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 PROACTIVE COMMAND 1.10.8: TIMER MANAGEMENT 1.10.8**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: deactivate the Timer

Device identities  
 Source device: SIM  
 Destination device: ME

Timer identifier:  
 Identifier of timer: 8

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 27 | 01 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 08 |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.10.8**

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

**Proactive SIM CommandPROACTIVE COMMAND\_1.11.1: TIMER MANAGEMENT 1.11.1**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 1  
 Timer value:  
 Value of timer: 5 sec

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 11 | 81 | 03 | 01 | 27 | 00 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 01 | A5 | 03 | 00 | 00 | 50 |    |    |    |    |    |

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.1**

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 CommandPROACTIVE COMMAND\_1.11.2: TIMER MANAGEMENT 1.11.2**

Logically:



Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 2  
 Timer value:  
 Value of timer: 5sec

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 11 | 81 | 03 | 01 | 27 | 00 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 02 | A5 | 03 | 00 | 00 | 50 |    |    |    |    |    |

## TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.2

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~~ PROACTIVE COMMAND 1.11.3: TIMER MANAGEMENT 1.11.3

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 3  
 Timer value:  
 Value of timer: 5sec

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 11 | 81 | 03 | 01 | 27 | 00 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 03 | A5 | 03 | 00 | 00 | 50 |    |    |    |    |    |

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.3**

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 PROACTIVE COMMAND 1.11.4: TIMER MANAGEMENT 1.11.4**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 4  
 Timer value:  
 Value of timer: 5sec

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 11 | 81 | 03 | 01 | 27 | 00 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 04 | A5 | 03 | 00 | 00 | 50 |    |    |    |    |    |

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.4**

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 PROACTIVE COMMAND 1.11.5: TIMER MANAGEMENT 1.11.5**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 5  
 Timer value:  
 Value of timer: 5sec

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 11 | 81 | 03 | 01 | 27 | 00 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 05 | A5 | 03 | 00 | 00 | 50 |    |    |    |    |    |

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.5**

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 PROACTIVE COMMAND 1.11.6: TIMER MANAGEMENT 1.11.6**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 6  
 Timer value:  
 Value of timer: 5sec

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 11 | 81 | 03 | 01 | 27 | 00 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 06 | A5 | 03 | 00 | 00 | 50 |    |    |    |    |    |

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.6**

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 PROACTIVE COMMAND 1.11.7: TIMER MANAGEMENT 1.11.7**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 7  
 Timer value:  
 Value of timer: 5sec

Coding :

BER-TLV: D0 11 81 03 01 27 00 82 02 81 82 A4  
 01 07 A5 03 00 00 50

### **TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.7**

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 PROACTIVE COMMAND -1.11.8: TIMER MANAGEMENT 1.11.8**

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 8  
 Timer value:  
 Value of timer: 5sec

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 11 | 81 | 03 | 01 | 27 | 00 | 82 | 02 | 81 | 82 | A4 |
|          | 01 | 08 | A5 | 03 | 00 | 00 | 50 |    |    |    |    |    |

**TERMINAL RESPONSE : TIMER MANAGEMENT 1.11.8**

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

### 27.22.4.21.2 ENVELOPE TIMER EXPIRATION (normal)

#### 27.22.4.21.2.1 Definition and applicability

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

#### 27.22.4.21.2.2 Conformance requirement

The ME shall support the ENVELOPE (TIMER EXPIRATION) command as defined in the following technical specifications:

TS GSM 11.14 clause 4.10, 10.1 and 10.2.

#### 27.22.4.21.2.3 Test Purpose

To verify that the ME shall pass the identifier of the timer that has expired and its value using the ENVELOPE (TIMER EXPIRATION) command, when a timer previously started in a TIMER MANAGEMENT proactive command expires.

#### 27.22.4.21.2.4 Method of test

##### 27.22.4.21.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

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

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

The timer 1 is not started.

27.22.4.21.2.7.4.2 Procedure

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

| Step | Direction | MESSAGE / Action                                                                                                                              | Comments                                          |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 2.1.1                                                                                       | [timer 1]<br><br>[command performed successfully] |
| 2    | ME → SIM  | FETCH                                                                                                                                         |                                                   |
| 3    |           | PROACTIVE COMMAND: TIMER<br>MANAGEMENT 2.1.1                                                                                                  |                                                   |
| 4    | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 2.1.1                                                                                                  |                                                   |
| 5    | ME → SIM  | ENVELOPE: TIMER EXPIRATION<br>2.1.1                                                                                                           |                                                   |
| 6    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: MORE TIME X.1(or an<br>other SAT command tested before<br>to ensure it is properly supported<br>by the mobile). |                                                   |
| 7    | ME → SIM  | FETCH                                                                                                                                         |                                                   |

~~Proactive SIM Command~~ **PROACTIVE COMMAND -2.1.1: TIMER MANAGEMENT 2.1.1**

Logically:

Command details

Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer

Device identities

Source device: SIM  
 Destination device: ME

Timer identifier:

Identifier of timer: 1

Timer value:

Value of timer: 0h 0min 10sec

Coding:

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

**TERMINAL RESPONSE : TIMER MANAGEMENT 2.1.1**



## Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Timer identifier:  
 Identifier of timer: 1

## Coding:

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

**ENVELOPE: TIMER EXPIRATION 2.1.1**

## Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 Timer identifier: Timer 1  
 Timer value  
 Hour: '00'  
 Minute: '00'  
 Second: '10'

## Coding :

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

Expected Sequence 2.2 (TIMER EXPIRATION, SIM application toolkit busy)

| Step | Direction | MESSAGE / Action                                        | Comments                                                                                                            |
|------|-----------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: TIMER<br>MANAGEMENT 2.2.1 | [timer 1]<br>[command performed successfully]<br>[response to ENVELOPE: TIMER<br>EXPIRATION repeated for 5 seconds] |
| 2    | ME → SIM  | FETCH                                                   |                                                                                                                     |
| 3    |           | PROACTIVE COMMAND: TIMER<br>MANAGEMENT 2.2.1            |                                                                                                                     |
| 4    | ME → SIM  | TERMINAL RESPONSE: TIMER<br>MANAGEMENT 2.2.1            |                                                                                                                     |
| 5    | ME → SIM  | ENVELOPE: TIMER EXPIRATION<br>2.2.1A                    |                                                                                                                     |
| 6    | SIM → ME  | PROACTIVE SIM SESSION<br>BUSY                           |                                                                                                                     |
| 7    | ME → SIM  | ENVELOPE: TIMER EXPIRATION<br>2.2.1B                    |                                                                                                                     |
| 8    | SIM → ME  | PROACTIVE SIM SESSION<br>BUSY                           |                                                                                                                     |
| 9    |           |                                                         |                                                                                                                     |
| 10   | ME → SIM  | ENVELOPE: TIMER EXPIRATION<br>2.2.1C                    |                                                                                                                     |
| 11   | SIM → ME  | PROACTIVE SIM SESSION<br>ENDED                          |                                                                                                                     |

**Proactive SIM Command** PROACTIVE COMMAND 2.2.1: TIMER MANAGEMENT 2.2.1

Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Timer identifier:  
 Identifier of timer: 1  
 Timer value:  
 Value of timer: 0h 0min 30sec

Coding:

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

**TERMINAL RESPONSE : TIMER MANAGEMENT 2.2.1**

## Logically:

Command details  
 Command number: 1  
 Command type: TIMER MANAGEMENT  
 Command qualifier: start the Timer  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully  
 Timer identifier:  
 Identifier of timer: 1

## Coding:

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

**ENVELOPE: TIMER EXPIRATION 2.2.1A**

## Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 Timer identifier: Timer 1  
 Timer value  
 Hour: '00'  
 Minute: '00'  
 Second: '30'

## Coding :

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

**ENVELOPE: TIMER EXPIRATION 2.2.1B**

## Logically:

Device identities  
 Source device: ME  
 Destination device: SIM  
 Timer identifier: Timer 1  
 Timer value  
 Hour: '00'  
 Minute: '00'  
 Second: '3X'

## Coding :

BER-TLV: D7 0C 82 02 82 81 A4 01 01 A5 03 00  
 00 X3

**ENVELOPE: TIMER EXPIRATION 2.2.1C**

Logically:

|                     |         |
|---------------------|---------|
| Device identities   |         |
| Source device:      | ME      |
| Destination device: | SIM     |
| Timer identifier:   | Timer 1 |
| Timer value         |         |
| Hour:               | '00'    |
| Minute:             | '00'    |
| Second:             | '35'    |

Coding :

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D7 | 0C | 82 | 02 | 82 | 81 | A4 | 01 | 01 | A5 | 03 | 00 |
|          | 00 | 53 |    |    |    |    |    |    |    |    |    |    |

**27.22.4.21.27.4.5 Test Requirement**

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

**27.22.4.22 SET UP IDLE MODE TEXT****27.22.4.22.1 SET UP IDLE MODE TEXT (normal)****27.22.4.22.1.1 Definition and applicability**

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

Additionally :

~~The ME must support SET UP EVENT LIST and EVENT DOWNLOAD IDLE SCREEN AVAILABLE~~ proactive SIM facilities.

~~Additionally~~ Some tests are only applicable to ME's that also support the SMS display immediate facility and the REFRESH proactive SIM facility.

**27.22.4.22.1.2 Conformance requirement**

~~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, ~~6.6.22, 6.4.16, 6.6.16, 11.6,~~ 6.8 (Terminal Response), 11, 11.1, 12.25, ~~6.4.7, 6.6.13~~

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

TS GSM 11.14 [15] clause 5.2, 6.1, 6.4.7, 6.6.13, 6.11, 12.6, 12.12, 13.4 and 14.

**27.22.4.22.1.3 Test Purpose**

To verify that the text passed to the ME is displayed as idle mode text.

27.22.4.22.1.4 Method of test

27.22.4.22.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator and the System Simulator.

The elementary files are coded as SIM Application Toolkit default.

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

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

### Event List

Logically:

Event 1: Idle screen available

.

27.22.4.22.1.4.2 Procedure

Expected Sequence 1.1 (SET UP IDLE MODE TEXT, display idle mode text)

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

**PROACTIVE COMMAND : SET UP EVENT LIST 1.1.1**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Event list  
 Event 1: Idle screen available

## Coding:

BER-TLV: D0 0C 81 03 01 05 00 82 02 81 82 99  
 01 05

**TERMINAL RESPONSE : SET UP EVENT LIST 1.1.1**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

## Coding:

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

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

## Logically:

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

## Coding:

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

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

Logically:

## Command details

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

## Device identities

Source device: SIM  
 Destination device: ME

## Text string

Data coding scheme: unpacked, 8 bit data  
 Text: "Idle Mode Text"

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 28 | 00 | 82 | 02 | 81 | 82 | 8D |
|          | 0F | 04 | 49 | 64 | 6C | 65 | 20 | 4D | 6F | 64 | 65 | 20 |
|          | 56 | 65 | 78 | 74 |    |    |    |    |    |    |    |    |

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

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

General Result: Command performed successfully

Coding:

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

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

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

**PROACTIVE COMMAND : SETUP IDLE MODE TEXT 1.2.1**

Logically:

Command details

Command number: 1  
 Command type: SETUP IDLE MODE TEXT  
 Command qualifier: RFU

Device identities

Source device: SIM  
 Destination device: Display

Text String

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

Coding:

```

BER-TLV:  D0  18  81  03  01  28  00  82  02  81  82  8D
           0D  04  54  6F  6F  6C  6B  69  74  20  54  65
           73  74
    
```

**TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.2.1**



## Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully

## Coding:

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

## Expected Sequence 1.3 (SET UP IDLE MODE TEXT, remove idle mode text)

| Step | Direction    | MESSAGE / Action                                                                 | Comments                             |
|------|--------------|----------------------------------------------------------------------------------|--------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1                         | With the event Idle Screen available |
| 2    | ME → SIM     | TERMINAL RESPONSE : SET UP<br>EVENT LIST 1.1.1                                   | [Command performed successfully]     |
| 3    | USER →<br>ME | Wait for the user returns to idle<br>mode.                                       |                                      |
| 4    | ME → SIM     | Select idle screen<br>ENVELOPE: EVENT<br>DOWNLOAD IDLE SCREEN<br>AVAILABLE 1.1.1 |                                      |
| 5    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP IDLE MODE<br>TEXT 1.1.2                     |                                      |
| 6    | ME → SIM     | FETCH                                                                            |                                      |
| 7    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP IDLE MODE TEXT 1.1.2                               | ["Idle Mode Text"]                   |
| 8    | ME →<br>USER | Display "Idle Mode Text"                                                         |                                      |
| 9    | ME → SIM     | TERMINAL RESPONSE : SET UP<br>IDLE MODE TEXT 1.1.2                               |                                      |
| 10   | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP IDLE MODE<br>TEXT 1.3.1                     |                                      |
| 11   | ME → SIM     | FETCH                                                                            |                                      |
| 12   | SIM → ME     | PROACTIVE COMMAND : SET<br>UP IDLE MODE TEXT 1.3.1                               | [Remove idle mode text]              |
| 13   | ME →<br>USER | Display idle screen / "Idle Mode<br>Text" not to be displayed                    |                                      |
| 14   | ME → SIM     | TERMINAL RESPONSE : SET UP<br>IDLE MODE TEXT 1.3.1                               |                                      |
| 15   | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                   |                                      |

**PROACTIVE COMMAND: SETUP IDLE MODE TEXT 1.3.1**

## Logically:

|                     |                      |
|---------------------|----------------------|
| Command details     |                      |
| Command number:     | 1                    |
| Command type:       | SETUP IDLE MODE TEXT |
| Command qualifier:  | RFU                  |
| Device identities   |                      |
| Source device:      | SIM                  |
| Destination device: | ME                   |
| Text String:        | zero length TLV      |

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0B | 81 | 03 | 01 | 28 | 00 | 82 | 02 | 81 | 82 | 8D |
|          | 00 |    |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.3.1**Logically:

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

## Coding:

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

Expected Sequence 1.4 (SET UP IDLE MODE TEXT, competing information on ME display)

| Step | Direction    | MESSAGE / Action                                                   | Comments                             |
|------|--------------|--------------------------------------------------------------------|--------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1           | With the event Idle Screen available |
| 2    | ME → SIM     | TERMINAL RESPONSE : SET UP<br>EVENT LIST 1.1.1                     | [Command performed successfully]     |
| 3    | USER →<br>ME | Wait for the mobile returns to idle<br>mode.<br>Select idle screen |                                      |
| 4    | ME → SIM     | ENVELOPE: EVENT<br>DOWNLOAD IDLE SCREEN<br>AVAILABLE 1.1.2         |                                      |
| 5    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP IDLE MODE<br>TEXT 1.1/2       |                                      |
| 6    | ME → SIM     | FETCH                                                              |                                      |
| 7    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP IDLE MODE TEXT 1.1.2                 | ["Idle Mode Text"]                   |
| 8    | ME →<br>USER | Display "Idle Mode Text"                                           |                                      |
| 9    | ME → SIM     | TERMINAL RESPONSE : SET UP<br>IDLE MODE TEXT 1.12                  | [Command performed successfully]     |
| ...  |              |                                                                    |                                      |
| 10   | SS → ME      | SMS PP 1.4.1                                                       | [Display immediate SMS]              |
| 11   | ME →<br>USER | Display "Short Message"                                            |                                      |
| 12   | USER →<br>ME | Clear display and select idle<br>screen                            |                                      |
| 13   | ME →<br>USER | Display "Idle Mode Text"                                           |                                      |

SMS-PP 1.4.1

Logically:

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| SMS TPDU       |                                                                            |
| TP-MTI         | SMS-SUBMIT                                                                 |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM                           |
| TP-VPF         | TP-VP field not present                                                    |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT                                |
| TP-UDHI        | The TP-UD field contains only the short message                            |
| TP-SRR         | A status report is not requested                                           |
| TP-MR          | "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<br>54 65 73 74 20 4D 65 73 73 61 67 65 |

Expected Sequence 1.5 (SET UP IDLE MODE TEXT, ME power cycled)

| Step | Direction    | MESSAGE / Action                                                                 | Comments                             |
|------|--------------|----------------------------------------------------------------------------------|--------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1                         | With the event Idle Screen available |
| 2    | ME → SIM     | TERMINAL RESPONSE : SET UP<br>EVENT LIST 1.1.1                                   | [Command performed successfully]     |
| 3    | USER →<br>ME | Wait for the mobile returns into<br>idle mode.                                   |                                      |
| 4    | ME → SIM     | Select idle screen<br>ENVELOPE: EVENT<br>DOWNLOAD IDLE SCREEN<br>AVAILABLE 1.1.1 |                                      |
| 5    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP IDLE MODE<br>TEXT 1.1.2                     |                                      |
| 6    | ME → SIM     | FETCH                                                                            |                                      |
| 7    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP IDLE MODE TEXT 1.1.2                               | ["Idle Mode Text"]                   |
| 8    | ME →<br>USER | Display "Idle Mode Text"                                                         |                                      |
| 9    | ME → SIM     | TERMINAL RESPONSE : SET UP<br>IDLE MODE TEXT 1.1.2                               | [command performed successfully]     |
| 10   | USER →<br>ME | Power off ME                                                                     |                                      |
| 11   | ME ↔ SIM     | GSM TERMINATION<br>PROCEDURE                                                     |                                      |
| 12   | USER →<br>ME | Power on ME                                                                      |                                      |
| 13   | ME ↔ SIM     | GSM ACTIVATION PROCEDURE                                                         |                                      |
| 14   | ME ↔ SIM     | SIM INITIALISATION                                                               |                                      |
| 14   | ME →<br>USER | Display idle screen / "Idle Mode<br>Text" not to be displayed                    |                                      |

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

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

**PROACTIVE COMMAND : REFRESH 1.6.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Coding:

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

**TERMINAL RESPONSE : REFRESH 1.61A**

## Logically:

## Command details

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

## Device identities

Source device: ME  
Destination device: SIM

## Result

General Result: Command performed successfully

## Coding:

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

**TERMINAL RESPONSE : REFRESH 1.61B**

## Logically:

## Command details

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

## Device identities

Source device: ME  
Destination device: SIM

## Result

General Result: REFRESH performed with additional EFs read

## Coding:

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

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

| Step | Direction    | MESSAGE / Action                                                                                                                                                                                                                                                                                                   | Comments                             |
|------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1                                                                                                                                                                                                                                                           | With the event Idle Screen available |
| 2    | ME → SIM     | TERMINAL RESPONSE : SET UP<br>EVENT LIST 1.1.1                                                                                                                                                                                                                                                                     | [Command performed successfully]     |
| 3    | USER →<br>ME | Wait for the mobile returns to idle<br>mode.<br>Select idle screen                                                                                                                                                                                                                                                 |                                      |
| 4    | ME → SIM     | ENVELOPE: EVENT<br>DOWNLOAD IDLE SCREEN<br>AVAILABLE 1.1.1                                                                                                                                                                                                                                                         |                                      |
| 5    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SET UP IDLE MODE<br>TEXT 1.7.1                                                                                                                                                                                                                                                       | [large text string]                  |
| 6    | ME → SIM     | FETCH                                                                                                                                                                                                                                                                                                              |                                      |
| 7    | SIM → ME     | PROACTIVE COMMAND : SET<br>UP IDLE MODE TEXT 1.7.1                                                                                                                                                                                                                                                                 |                                      |
| 8    | ME →<br>USER | Display "The SIM shall supply a<br>text string, which shall be<br>displayed by the ME as an idle<br>mode text if the ME is able to do it.<br>The presentation style is left as an<br>implementation decision to the ME<br>manufacturer. The idle mode text<br>shall be displayed in a manner<br>that ensures that" |                                      |
| 9    | ME → SIM     | TERMINAL RESPONSE : SET UP<br>IDLE MODE TEXT 1.7.1                                                                                                                                                                                                                                                                 | [command performed successfully]     |
| 10   | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                                                                                                                                                                                                                                                                                     |                                      |

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

Logically:

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

Coding:

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

**PROACTIVE COMMAND : SET UP IDLE MODE TEXT 1.7.1**

Logically:

Command details

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

Device identities

Source device: SIM  
 Destination device: ME

Text string

Data coding scheme: packed, SMS default alphabet  
 Text: "The SIM shall supply a text string, which shall be displayed by the ME as an idle mode text if the ME is able to do it. The presentation style is left as an implementation decision to the ME manufacturer. The idle mode text shall be displayed in a manner that ensures that"

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | FB | 81 | 03 | 01 | 28 | 00 | 82 | 02 | 81 | 82 |
|          | 8D | 81 | EF | 00 | 54 | 74 | 19 | 34 | 4D | 36 | 41 | 73 |
|          | 74 | 98 | CD | 06 | CD | EB | 70 | 38 | 3B | 0F | 0A | 83 |
|          | E8 | 65 | 3C | 1D | 34 | A7 | CB | D3 | EE | 33 | 0B | 74 |
|          | 47 | A7 | C7 | 68 | D0 | 1C | 1D | 66 | B3 | 41 | E2 | 32 |
|          | 88 | 9C | 9E | C3 | D9 | E1 | 7C | 99 | 0C | 12 | E7 | 01 |
|          | 74 | 74 | 19 | D4 | 2C | 82 | C2 | 73 | 50 | D8 | 0D | 4A |
|          | 93 | D9 | 65 | 50 | FB | 4D | 2E | 83 | E8 | 65 | 3C | 1D |
|          | 94 | 36 | 83 | E8 | E8 | 32 | A8 | 59 | 04 | A5 | E7 | A0 |
|          | B0 | 98 | 5D | 06 | D1 | DF | 20 | F2 | 1B | 94 | A6 | BB |
|          | 40 | 54 | 74 | 19 | 04 | 97 | 03 | E5 | 79 | D9 | 4D | 0F |
|          | D3 | D3 | 6F | 37 | 68 | 4E | CF | B3 | CB | A0 | F4 | 1C |
|          | C4 | 2E | 9B | E9 | A0 | F0 | 1C | 14 | 76 | 83 | D2 | 6D |
|          | 38 | BB | DC | 2E | BB | E9 | 61 | 7A | FA | ED | 06 | 91 |
|          | CB | E3 | F4 | 3C | FD | 76 | 83 | E8 | 6F | 10 | 1D | 5D |
|          | 06 | 35 | 8B | ED | B0 | BB | 6E | 0E | 8F | E9 | 75 | 79 |
|          | 59 | EE | 02 | 51 | D1 | 65 | 50 | 9A | CC | 2E | 83 | DA |
|          | 6F | 72 | 19 | 44 | 2F | E3 | 01 | 74 | D0 | 1C | 1D | 66 |
|          | B3 | 41 | E2 | 32 | 88 | 9C | 9E | C3 | D9 | E1 | 7C | 99 |
|          | 0C | 4A | BB | 41 | 61 | 50 | 3B | EC | 76 | 97 | E5 | 74 |
|          | 74 | 98 | 0E | 2A | BB | E7 | 75 | 79 | 79 | 0E | A2 | A3 |
|          | C3 | 74 |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE : SET UP IDLE MODE TEXT 1.7.1**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

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

27.22.4.22.3.5 Test Requirement

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



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

### 27.22.4.22.2.1 Definition and applicability

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

### 27.22.4.22.2.2 Conformance requirement

### 27.22.4.22.2.3 Test Purpose

To verify that the ME text and / or icon passed to the ME is displayed by the ME as an idle mode text.

To verify that the icon identifier provided with the text string can replace the text string or accompany it.

To verify that if both an alpha identifier or text string, and an icon are provided with a proactive command, and both are requested to be displayed, but the ME is not able to display both together on the screen, then the alpha identifier or text string takes precedence over the icon.

To verify that if the SIM provides an icon identifier with a proactive command, then the ME shall inform the SIM if the icon could not be displayed by sending the general result "Command performed successfully, but requested icon could not be displayed".

To verify that if the ME receives an icon qualifier with bit 1 set to 0, meaning "an alpha identifier or text string related to the icon may be displayed together with the icon by the ME", and no alpha identifier / text string is given by the SIM, then the ME shall reject the command with general result "Command data not understood by ME".

### 27.22.4.22.2.4 Method of test

#### 27.22.4.22.2.4.1 Initial Conditions

The ME is connected to both the SIM Simulator and the System Simulator.

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

#### **EF IMG**

Logically:

Record 1  
<small icon>

Record 2  
<tall icon (line)>

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

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

#### **Event List**

Logically:

Event 1: Idle screen available

27.22.4.22.2.4.2 Procedure

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

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

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

Logically:

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

Coding:

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

**PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.1.1**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Text string: "Idle text"  
 Icon identifier  
 Icon qualifier: icon is self-explanatory  
 Icon identifier: <record 1 in EF IMG>

Coding:

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

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

Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

Result  
 General Result: Command performed successfully

Coding:

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

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

Logically:

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

Device identities  
 Source device: ME  
 Destination device: SIM

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

Coding:

BER-TLV: 81 03 01 28 00 82 02 82 81 83 01 04

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

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

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

Logically:

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

Coding:

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

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

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

Coding:

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

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

Logically:

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

Coding:

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

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

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: SIM

Result

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

Coding:

BER-TLV: 81 03 01 28 00 82 02 82 81 83 01 04

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

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

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

## Logically:

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

## Coding:

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

**PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.3.1**

## Logically:

Command details  
 Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Text string: "Idle text"  
 Icon identifier  
 Icon qualifier: icon is self-explanatory  
 Icon identifier: <record 2 in EF IMG>

## Coding:

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

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

## Logically:

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

## Coding:

BER-TLV: 81 03 01 28 00 82 02 82 81 83 01 ~~04~~  
 0

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

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: SIM

## Result

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

Coding:

BER-TLV: 81 03 01 28 00 82 02 82 81 83 01 04

Expected Sequence 2.4 (SET UP IDLE MODE TEXT, Icon is not self-explanatory, no text string)

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

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

## Logically:

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

## Coding:

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

**PROACTIVE COMMAND : SET UP IDLE MODE TEXT 2.4.1**

## Logically:

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

## Coding:

BER-TLV: D0 19 81 03 01 28 00 82 02 81 82 9E  
02 01 01

**TERMINAL RESPONSE : SET UP IDLE MODE LIST 2.4.1**

## Logically:

|                     |                                   |
|---------------------|-----------------------------------|
| Command details     |                                   |
| Command number:     | 1                                 |
| Command type:       | SET UP IDLE MODE TEXT             |
| Command qualifier:  | RFU                               |
| Device identities   |                                   |
| Source device:      | ME                                |
| Destination device: | SIM                               |
| Result              |                                   |
| General Result:     | Command data not understood by ME |

## Coding:

BER-TLV: 81 03 01 28 00 82 02 82 81 83 01 32

**27.22.4.22.2.5 Test Requirement**

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



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

## 27.22.4.22.3.1 Definition and applicability

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

## 27.22.4.22.3.2 Conformance requirement

Additionally the ME shall support the UCS2 display facility as defined in the following technical specifications: ISO/IEC 10646 [17]

## 27.22.4.22.3.3 Test Purpose

To verify that the UCS2 coded text string is displayed by the ME as an idle mode text.

## 27.22.4.22.3.4 Method of test

## 27.22.4.22.3.4.1 Initial Conditions

The ME is connected to both the SIM Simulator and the System Simulator.

The elementary files are coded as SIM Application Toolkit default.

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

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

**Event List**

Logically:

Event 1: Idle screen available

## 27.22.4.22.3.4.2 Procedure

Expected Sequence 3.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text)

| Step | Direction | MESSAGE / Action                                             | Comments             |
|------|-----------|--------------------------------------------------------------|----------------------|
| 1    | USER → ME | Select idle screen                                           |                      |
| 2    | ME → SIM  | ENVELOPE: EVENT<br>DOWNLOAD IDLE SCREEN<br>AVAILABLE 3.1.1   |                      |
| 3    | SIM → ME  | PROACTIVE COMMAND<br>PENDING: SET UP IDLE MODE<br>TEXT 3.1.1 | ["Hello" in Russian] |
| 4    | ME → SIM  | FETCH                                                        |                      |
| 5    | SIM → ME  | PROACTIVE COMMAND : SET<br>UP IDLE MODE TEXT 3.1.1           |                      |
| 6    | ME → USER | Display "ЗДРАВСТВУЙТЕ"                                       | ["Hello" in Russian] |
| 7    | ME → SIM  | TERMINAL RESPONSE : SET UP<br>IDLE MODE TEXT 3.1.1           |                      |
| 8    | SIM → ME  | PROACTIVE SIM SESSION<br>ENDED                               |                      |

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

Logically:

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

Coding:

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

**PROACTIVE COMMAND : SET UP IDLE MODE TEXT 3.1.1**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP IDLE MODE TEXT  
 Command qualifier: RFU  
 Device identities  
 Source device: SIM  
 Destination device: ME  
 Text string  
 Data coding scheme: UCS2 (16bit)  
 Text: “ЗДРАВСТВУЙТЕ”

Coding:

BER-TLV: D0 24 81 03 01 28 00 82 02 81 82 8D  
 19 08 04 17 04 14 04 20 04 10 04 12  
 04 21 04 22 04 12 04 23 04 19 04 22  
 04 15

**TERMINAL RESPONSE : SET UP IDLE MODE LIST 3.1.1**

Logically:

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

Coding:

BER-TLV: 81 03 01 28 00 82 02 82 81 83 01 00

**27.22.4.22.3.5 Test Requirement**

The ME shall operate in the manner defined in expected sequence 1.

## 27.22.4.23 RUN AT COMMAND 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<br>PENDING: SEND DTMF 1.1.1                                                                                                        |                                  |
| 2    | ME → SIM     | FETCH                                                                                                                                                |                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>DTMF 1.1.1                                                                                                               |                                  |
| 4    | ME →<br>USER | May give information to the user<br>concerning what is happening.<br><br>Do not locally generate audible<br>DTMF tones and play them to the<br>user. |                                  |
| 5    | ME → SS      | DTMF Request 1.1.1                                                                                                                                   |                                  |
| 6    | ME → SIM     | TERMINAL RESPONSE : SEND<br>DTMF 1.1.1                                                                                                               | [Command performed successfully] |
| 7    | SIM → ME     | PROACTIVE SIM SESSION<br>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<br>PENDING: SEND DTMF 1.2.1                                                          |                                  |
| 2    | ME → SIM     | FETCH                                                                                                  |                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>DTMF 1.2.1                                                                 |                                  |
| 4    | ME →<br>USER | Display "Send DTMF"<br><br>Do not locally generate audible<br>DTMF tones and play them to the<br>user. | Alpha identifier                 |
| 5    | ME → SS      | DTMF Request 1.2.1                                                                                     |                                  |
| 6    | ME → SIM     | TERMINAL RESPONSE : SEND<br>DTMF 1.2.1                                                                 | [Command performed successfully] |
| 7    | SIM → ME     | PROACTIVE SIM SESSION<br>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<br>PENDING: SEND DTMF 1.3.1                                                                                                                                                  |                                        |
| 2    | ME → SIM     | FETCH                                                                                                                                                                                          |                                        |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>DTMF 1.3.1                                                                                                                                                         | Alpha identifier with null data object |
| 4    | ME →<br>USER | Do not give any information to the<br>user on the fact that the ME is<br>performing a SEND DTMF<br>command.<br><br>Do not locally generate audible<br>DTMF tones and play them to the<br>user. |                                        |
| 5    | ME → SS      | DTMF Request 1.3.1                                                                                                                                                                             |                                        |
| 6    | ME → SIM     | TERMINAL RESPONSE : SEND<br>DTMF 1.3.1                                                                                                                                                         | [Command performed successfully]       |
| 7    | SIM → ME     | PROACTIVE SIM SESSION<br>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<br>PENDING: SEND DTMF 1.4.1 |                                                                 |
| 2    | ME → SIM  | FETCH                                         |                                                                 |
| 3    | SIM → ME  | PROACTIVE COMMAND : SEND<br>DTMF 1.4.1        |                                                                 |
| 4    | ME → SIM  | TERMINAL RESPONSE : SEND<br>DTMF 1.4.1        | [ME currently unable to process command,<br>not in speech call] |
| 5    | SIM → ME  | PROACTIVE SIM SESSION<br>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<br>PENDING: SEND DTMF 2.1.1                                                             |                                  |
| 2    | ME → SIM     | FETCH                                                                                                     |                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>DTMF 2.1.1                                                                    | [BASIC-ICON, self-explanatory]   |
| 4    | ME →<br>USER | Display the BASIC-ICON<br><br>Do not locally generate audible<br>DTMF tones and play them to the<br>user. |                                  |
| 5    | ME → SS      | DTMF Request 2.1.1                                                                                        |                                  |
| 6    | ME → SIM     | TERMINAL RESPONSE : SEND<br>DTMF 2.1.1                                                                    | [Command performed successfully] |
| 7    | SIM → ME     | PROACTIVE SIM SESSION<br>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 qualifier: icon is self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

BER-TLV: D0 11 81 03 01 14 00 82 02 81 83 AC  
 02 C1 F2 9E 02 00 01

DTMF Request 2.1.1

Logically:

DTMF String: \$DTMF\_2.1\$ = "C1 F2" (given as example)

**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<br>PENDING: SEND DTMF 2.2.1                                                              |                                  |
| 2    | ME → SIM     | FETCH                                                                                                      |                                  |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>DTMF 2.2.1                                                                     | [COLOUR-ICON]                    |
| 4    | ME →<br>USER | Display the COLOUR-ICON<br><br>Do not locally generate audible<br>DTMF tones and play them to the<br>user. |                                  |
| 5    | ME → SS      | DTMF Request 2.2.1                                                                                         |                                  |
| 6    | ME → SIM     | TERMINAL RESPONSE : SEND<br>DTMF 2.2.1                                                                     | [Command performed successfully] |
| 7    | SIM → ME     | PROACTIVE SIM SESSION<br>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<sub>(IMG)</sub>

Coding:

```
BER-TLV:  D0  11  81  03  01  14  00  82  02  81  83  AC
           02  C1  F2  9E  02  00  02
```

**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 &amp; BASIC-ICON, not self-explanatory)

| Step | Direction    | MESSAGE / Action                                                            | Comments                                              |
|------|--------------|-----------------------------------------------------------------------------|-------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND DTMF 2.3.1                               |                                                       |
| 2    | ME → SIM     | FETCH                                                                       |                                                       |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>DTMF 2.3.1                                      | [Alpha identifier & BASIC-ICON, not self-explanatory] |
| 4    | ME →<br>USER | Display the BASIC-ICON<br>Or<br>Display "Send DTMF"                         |                                                       |
|      |              | Do not locally generate audible<br>DTMF tones and play them to the<br>user. |                                                       |

|   |          |                                         |                                                                                |
|---|----------|-----------------------------------------|--------------------------------------------------------------------------------|
| 5 | ME → SS  | DTMF Request 2.3.1                      |                                                                                |
| 6 | ME → SIM | TERMINAL RESPONSE : SEND<br>DTMF 2.3.1A | [Command performed successfully]                                               |
|   |          | Or                                      | Or                                                                             |
|   |          | TERMINAL RESPONSE : SEND<br>DTMF 2.3.1B | [Command performed successfully, but<br>requested icon could not be displayed] |
| 7 | SIM → ME | PROACTIVE SIM SESSION<br>ENDED          |                                                                                |

### PROACTIVE COMMAND : SEND DTMF 2.3.1

Logically:

#### Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

#### Device identities

Source device: SIM  
 Destination device: Network

#### Alpha identifier:

DTMF String: \$DTMF\_2.3\$ = "C1 F2" (given as example)

#### Icon Identifier:

Icon qualifier: icon is not self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

```

BER-TLV:  D0  1C  81  03  01  14  00  82  02  81  83  85
           09  53  65  6E  64  20  44  54  4D  46  AC  02
           C1  F2  9E  02  01  01
  
```

### 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. [17].

**27.22.4.24.3.3 Test Purpose**

To verify that the ME displays the UCS2 text contained in the SEND DTMF proactive SIM command, and returns a successful result in the TERMINAL RESPONSE command send to the SIM.

**27.22.4.24.3.4 Method of test****27.22.4.24.3.4.1 Initial Conditions**

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM Application Toolkit default with the following exceptions.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.24.3.4.2 Procedure

Expected Sequence 3.1 (SEND USSD, call forward unconditional, all bearers, successful, UCS2 text)

| Step | Direction    | MESSAGE / Action                                                                                                                          | Comments                                                                                                                  |
|------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1    | SIM → ME     | PROACTIVE COMMAND<br>PENDING: SEND DTMF 3.1.1                                                                                             |                                                                                                                           |
| 2    | ME → SIM     | FETCH                                                                                                                                     |                                                                                                                           |
| 3    | SIM → ME     | PROACTIVE COMMAND : SEND<br>DTMF 3.1.1                                                                                                    |                                                                                                                           |
| 4    | ME →<br>USER | Display “ЗДРАВСТВУЙТЕ”                                                                                                                    | [“Hello” in Russian]                                                                                                      |
| 5    | ME → SS      | DTMF REQUEST 3.1.1                                                                                                                        |                                                                                                                           |
| 7    | ME → SIM     | TERMINAL RESPONSE : SEND<br>DTMF 3.1.1A<br>Or<br>TERMINAL RESPONSE : SEND<br>DTMF 3.1.1B<br>Or<br>TERMINAL RESPONSE : SEND<br>DTMF 3.1.1C | [Command performed successfully]<br>or<br>[Command beyond ME’s capabilities]<br>or<br>[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<br>PENDING: LANGUAGE<br>NOTIFICATION 1.1.1 |                                                                                                       |
| 2    | ME → SIM  | FETCH                                                        |                                                                                                       |
| 3    | SIM → ME  | PROACTIVE COMMAND :<br>LANGUAGE NOTIFICATION 1.1.1           | Language specified in the command is<br>different from the one set on the mobile.                     |
| 4    | ME → SIM  | TERMINAL RESPONSE :<br>LANGUAGE NOTIFICATION 1.1.1           | [Command performed successfully]                                                                      |
| 5    | SIM → ME  | PROACTIVE SIM SESSION<br>ENDED                               | Check that language of ME has been<br>replaced by the one specified in LANGUAGE<br>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<br>PENDING: LANGUAGE NOTIFICATION 1.2.1 |                                           |
| 2    | ME → SIM  | FETCH                                                     |                                           |
| 3    | SIM → ME  | PROACTIVE COMMAND :<br>LANGUAGE NOTIFICATION 1.2.1        |                                           |
| 4    | ME → SIM  | TERMINAL RESPONSE :<br>LANGUAGE NOTIFICATION 1.2.1        | [Command performed successfully]          |
| 5    | SIM → ME  | PROACTIVE SIM SESSION<br>ENDED                            | Check that initial language is set again. |

**PROACTIVE COMMAND : LANGUAGE NOTIFICATION 1.2.1**

Logically:

Command details

|                    |                                           |
|--------------------|-------------------------------------------|
| Command number:    | 1                                         |
| Command type:      | LANGUAGE NOTIFICATION                     |
| Command qualifier: | "00" (non specific language notification) |

Device identities

|                     |     |
|---------------------|-----|
| Source device:      | SIM |
| Destination device: | ME  |

Coding:

BER-TLV: D0 09 81 03 01 35 01 82 02 81 82

**TERMINAL RESPONSE : LANGUAGE NOTIFICATION 1.2.1**

Logically:

Command details

|                    |                       |
|--------------------|-----------------------|
| Command number:    | 1                     |
| Command type:      | LANGUAGE NOTIFICATION |
| Command qualifier: | "00"                  |

Device identities

|                     |     |
|---------------------|-----|
| Source device:      | ME  |
| Destination device: | SIM |

Result

|                 |                                |
|-----------------|--------------------------------|
| General Result: | Command performed successfully |
|-----------------|--------------------------------|

Coding:

BER-TLV: 81 03 01 35 00 82 02 82 81 83 01 00

**27.22.4.25.5 Test Requirement**

The ME shall operate in the manner defined in expected sequence 1 and 2.

**27.22.4.26 LAUNCH BROWSER**

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 Data Download to SIM

### 27.22.5.1 SMS-PP Data Download

#### 27.22.5.1.1 Definition and applicability

This test is only applicable to ME's that support the SMS-PP data download proactive SIM facility.

#### 27.22.5.1.2 Conformance requirement

The ME shall support the Proactive SIM: SMS-PP Data Download facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.3 (Data download to SIM), 5 (Profile Download), 7.1 (SMS-PP data download), clause 12.1 (Address) clause 12.7 (Device Identities), clause 12.13 (SMS TPDU).

#### 27.22.5.1.3 Test Purpose

To verify that the ME transparently passes the "data download via SMS Point-to-point" messages to the SIM.

To verify that the ME returns the RP-ACK message back to the system Simulator, if the SIM responds with '90 00' or '91 XX'.

To verify that the ME returns the response data from the SIM back to the system Simulator in the TP-User-Data element of the RP-ACK message, if the SIM responds with '9F XX'.

#### 27.22.5.1.4 Method of Test

##### 27.22.5.1.4.1 Initial Conditions

The ME is connected to the system Simulator and the SIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

## 27.22.5.1.4.2 Procedure

## Expected Sequence 1.1 (SMS-PP Data Download, General Data Coding, Default Alphabet)

| Step | Direction | MESSAGE / Action                                                                  | Comments                                                                                                                           |
|------|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1    | ME        | The ME shall be in its normal idle mode                                           | [Start a sequence to verify that the ME returns the RP-ACK message back to the system Simulator, if the SIM responds with '90 00'] |
| 2    | SS → ME   | SMS-PP Data Download Message 1.1.1                                                |                                                                                                                                    |
| 3    | ME → USER | The ME shall not display the message or alert the user of a short message waiting |                                                                                                                                    |
| 4    | ME → SIM  | ENVELOPE: SMS-PP DOWNLOAD 1.1.2                                                   |                                                                                                                                    |
| 5    | SIM → ME  | SW1 / SW2 of '90 00'                                                              |                                                                                                                                    |
| 6    | ME → SS   | RP-ACK.                                                                           |                                                                                                                                    |

## SMS-PP (Data Download) Message 1.1.1

Logically:

|               |                                                 |
|---------------|-------------------------------------------------|
| SMS TPDU      |                                                 |
| TP-MTI        | SMS-DELIVER                                     |
| TP-MMS        | No more messages waiting for the MS in this SC  |
| TP-RP         | TP-Reply-Path is not set in this SMS-DELIVER    |
| TP-UDHI       | TP-UD field contains only the short message     |
| TP-SRI        | A status report will not be returned to the SME |
| TP-OA         |                                                 |
| TON           | International number                            |
| NPI           | ISDN / telephone numbering plan                 |
| Address value | "1234"                                          |
| TP-PID        | SIM Data download                               |
| TP-DCS        |                                                 |
| Coding Group  | General Data Coding                             |
| Compression   | Text is uncompressed                            |
| Message Class | Class 2 SIM Specific Message                    |
| Alphabet      | Default Alphabet                                |
| TP-SCTS:      | 01/01/98 00:00:00 +0                            |
| TP-UDL        | 13                                              |
| TP-UD         | "Short Message"                                 |

Coding:

|                                  |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| <u>Coding:BE</u><br><u>R-TLV</u> | 04 | 03 | 91 | 21 | 43 | 7F | 12 | 89 | 10 | 10 | 00 | 00 |
|                                  | 00 | 00 | 0D | 53 | F4 | 5B | 4E | 07 | 35 | CB | F3 | 79 |
|                                  | F8 | 5C | 06 |    |    |    |    |    |    |    |    |    |

**ENVELOPE: SMS-PP DOWNLOAD 1.1.2**

Logically:

SMS-PP Download

Device identities

Source device: Network

Destination device: SIM

Address

TON International number

NPI ISDN / telephone numbering plan

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-DELIVER

TP-MMS No more messages waiting for the MS in this SC

TP-RP TP-Reply-Path is not set in this SMS-DELIVER

TP-UDHI TP-UD field contains only the short message

TP-SRI A status report will not be returned to the SME

TP-OA

TON International number

NPI ISDN / telephone numbering plan

Address value "1234"

TP-PID SIM Data download

TP-DCS

Coding Group General Data Coding

Compression Text is uncompressed

Message Class Class 2 SIM Specific Message

Alphabet Default Alphabet

TP-SCTS: 01/01/98 00:00:00 +0

TP-UDL 13

TP-UD "Short Message"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D1 | 2C | 82 | 02 | 83 | 81 | 06 | 09 | 91 | 11 | 22 | 33 |
|          | 44 | 55 | 66 | 77 | F8 | 8B | 1B | 04 | 04 | 91 | 21 | 43 |
|          | 7F | 12 | 89 | 10 | 10 | 00 | 00 | 00 | 00 | 0D | 53 | F4 |
|          | 5B | 4E | 07 | 35 | CB | F3 | 79 | F8 | 5C | 06 |    |    |

Expected Sequence 1.2 (SMS-PP Data Download, General Data Coding, Default Alphabet, GET RESPONSE, Acknowledgement)

| Step | Direction | MESSAGE / Action                                                                                                                                                                                          | Comments               |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1    | SS → ME   | SMS-PP Data Download Message 1.2.1                                                                                                                                                                        |                        |
| 2    | ME → USER | The ME shall not display the message or alert the user of a short message waiting.                                                                                                                        |                        |
| 3    | ME → SIM  | ENVELOPE: SMS-PP DOWNLOAD 1.2.2                                                                                                                                                                           |                        |
| 4    | SIM → ME  | RESPONSE DATA AVAILABLE                                                                                                                                                                                   | [SW1 / SW2 of '9F 0B'] |
| 5    | ME → SIM  | GET RESPONSE                                                                                                                                                                                              |                        |
| 6    | SIM → ME  | SMS-PP Data Download SIM Acknowledgement 1.2.3                                                                                                                                                            |                        |
| 7    | ME → SS   | SMS-PP Data Download SIM Acknowledgement 1.2.4 in the TP-User-Data element of the RP-ACK message. The values of protocol identifier and data coding scheme in RP-ACK shall be as in the original message. |                        |

Expected Sequence 1.3 (SMS-PP Data Download, General Data Coding, Default Alphabet, FETCH, MORE TIME)

| Step | Direction | MESSAGE / Action                                                                  | Comments               |
|------|-----------|-----------------------------------------------------------------------------------|------------------------|
| 1    | SS → ME   | SMS-PP Data Download Message 1.3.1                                                |                        |
| 2    | ME → USER | The ME shall not display the message or alert the user of a short message waiting |                        |
| 3    | ME → SIM  | ENVELOPE: SMS-PP DOWNLOAD 1.3.2                                                   |                        |
| 4    | SIM → ME  | PROACTIVE COMMAND PENDING: MORE TIME 1.3.3                                        | [SW1 / SW2 of '91 0B'] |
| 5    | ME → SS   | RP-ACK                                                                            |                        |
| 6    | ME → SIM  | FETCH                                                                             |                        |
| 7    | SIM → ME  | PROACTIVE COMMAND: MORE TIME 1.3.4                                                |                        |
| 8    | ME → SIM  | TERMINAL RESPONSE: MORE TIME 1.3.5                                                |                        |
| 9    | SIM → ME  | PROACTIVE SIM SESSION ENDED                                                       |                        |

**PROACTIVE COMMAND :~~reactive-SIM~~: MORE TIME 1.3.4**

Logically:

Command details  
 Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"  
 Device identities  
 Source device: SIM  
 Destination device: ME

Coding:

BER-TLV: D0 09 81 03 01 02 00 82 02 81 82

**TERMINAL RESPONSE : MORE TIME 1.3.5**

Logically:

Command details  
 Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 02 00 82 02 82 81 83 01 00

Expected Sequence 1.4 (SMS-PP Data Download, General Data Coding, 8 Bit Alphabet)

| Step | Direction | MESSAGE / Action                                                                  | Comments |
|------|-----------|-----------------------------------------------------------------------------------|----------|
| 1    | SS → ME   | SMS-PP Data Download Message 1.4.1                                                |          |
| 2    | ME        | The ME shall not display the message or alert the user of a short message waiting |          |
| 3    | ME → SIM  | ENVELOPE: SMS-PP DOWNLOAD 1.4.2                                                   |          |
| 4    | SIM → ME  | SW1 / SW2 of '90 00'                                                              |          |
| 5    | ME → SS   | RP-ACK                                                                            |          |

**SMS-PP (Data Download) Message 1.2.1 / 1.3.1 / 1.4.1**

Logically:

|               |                                                 |
|---------------|-------------------------------------------------|
| SMS TPDU      |                                                 |
| TP-MTI        | SMS-DELIVER                                     |
| TP-MMS        | No more messages waiting for the MS in this SC  |
| TP-RP         | TP-Reply-Path is not set in this SMS-DELIVER    |
| TP-UDHI       | TP-UD field contains only the short message     |
| TP-SRI        | A status report will not be returned to the SME |
| TP-OA         |                                                 |
| TON           | International number                            |
| NPI           | ISDN / telephone numbering plan                 |
| Address value | "1234"                                          |
| TP-PID        | SIM Data download                               |
| TP-DCS        |                                                 |
| Coding Group  | General Data Coding                             |
| Compression   | Text is uncompressed                            |
| Message Class | Class 2 SIM Specific Message                    |
| Alphabet      | 8 bit                                           |
| TP-SCTS:      | 01/01/98 00:00:00 +0                            |
| TP-UDL        | 13                                              |
| TP-UD         | "Short Message"                                 |

Coding:

|                       |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| <u>BER-TLV</u> Coding | 04 | 03 | 91 | 21 | 43 | 7F | 16 | 89 | 10 | 10 | 00 | 00 |
| :                     | 00 | 00 | 0D | 53 | 68 | 6F | 72 | 74 | 20 | 4D | 65 | 73 |
|                       | 73 | 61 | 67 | 65 |    |    |    |    |    |    |    |    |

**ENVELOPE: SMS-PP DOWNLOAD 1.2.2 / 1.3.2 / 1.4.2,**

Logically:

|                        |                                                 |
|------------------------|-------------------------------------------------|
| SMS-PP Download        |                                                 |
| Device identities      |                                                 |
| Source device:         | Network                                         |
| Destination device:    | SIM                                             |
| Address                |                                                 |
| TON                    | International number                            |
| NPI                    | ISDN / telephone numbering plan                 |
| Dialling number string | "112233445566778"                               |
| SMS TPDU               |                                                 |
| TP-MTI                 | SMS-DELIVER                                     |
| TP-MMS                 | No more messages waiting for the MS in this SC  |
| TP-RP                  | TP-Reply-Path is not set in this SMS-DELIVER    |
| TP-UDHI                | TP-UD field contains only the short message     |
| TP-SRI                 | A status report will not be returned to the SME |
| TP-OA                  |                                                 |
| TON                    | International number                            |
| NPI                    | ISDN / telephone numbering plan                 |
| Address value          | "1234"                                          |
| TP-PID                 | SIM Data download                               |
| TP-DCS                 |                                                 |
| Coding Group           | General Data Coding                             |
| Compression            | Text is uncompressed                            |
| Message Class          | Class 2 SIM Specific Message                    |
| Alphabet               | 8 bit                                           |
| TP-SCTS:               | 01/01/98 00:00:00 +0                            |
| TP-UDL                 | 13                                              |
| TP-UD                  | "Short Message"                                 |



Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D1 | 2D | 82 | 02 | 83 | 81 | 06 | 09 | 91 | 11 | 22 | 33 |
|          | 44 | 55 | 66 | 77 | F8 | 8B | 1C | 04 | 04 | 91 | 21 | 43 |
|          | 7F | 16 | 89 | 10 | 10 | 00 | 00 | 00 | 00 | 0D | 53 | 68 |
|          | 6F | 72 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |    |

Expected Sequence 1.5 (SMS-PP Data Download, Data Coding / Message Class, Default Alphabet)

| Step | Direction | MESSAGE / Action                                                                  | Comments |
|------|-----------|-----------------------------------------------------------------------------------|----------|
| 1    | ME        | The ME shall be in its normal idle mode.                                          |          |
| 2    | SS → ME   | SMS-PP Data Download Message 1.5.1.                                               |          |
| 3    | ME        | The ME shall not display the message or alert the user of a short message waiting |          |
| 4    | ME → SIM  | ENVELOPE: SMS-PP DOWNLOAD 1.5.2.                                                  |          |
| 5    | SIM → ME  | SW1 / SW2 of '90 00'                                                              |          |
| 6    | ME → SS   | RP-ACK                                                                            |          |

**SMS-PP (Data Download) Message 1.5.1**

Logically:

|                |                                                 |
|----------------|-------------------------------------------------|
| SMS TPDU       |                                                 |
| TP-MTI         | SMS-DELIVER                                     |
| TP-MMS         | No more messages waiting for the MS in this SC  |
| TP-RP          | TP-Reply-Path is not set in this SMS-DELIVER    |
| TP-UDHI        | TP-UD field contains only the short message     |
| TP-SRI         | A status report will not be returned to the SME |
| TP-OA          |                                                 |
| TON            | International number                            |
| NPI            | ISDN / telephone numbering plan                 |
| Address value  | "1234"                                          |
| TP-PID         | SIM Data download                               |
| TP-DCS         |                                                 |
| Coding Group   | Data Coding / Message Class                     |
| Message Coding | Default Alphabet                                |
| Message Class  | Class 2 SIM Specific Message                    |
| TP-SCTS:       | 01/01/98 00:00:00 +0                            |
| TP-UDL         | 13                                              |
| TP-UD          | "Short Message"                                 |

Coding:

|                       |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| <u>BER-TLV</u> Coding | 04 | 03 | 91 | 21 | 43 | 7F | F2 | 89 | 10 | 10 | 00 | 00 |
| :                     | 00 | 00 | 0D | 53 | F4 | 5B | 4E | 07 | 35 | CB | F3 | 79 |
|                       | F8 | 5C | 06 |    |    |    |    |    |    |    |    |    |

**ENVELOPE: SMS-PP DOWNLOAD 1.5.2**

Logically:

|                        |                                                 |
|------------------------|-------------------------------------------------|
| SMS-PP Download        |                                                 |
| Device identities      |                                                 |
| Source device:         | Network                                         |
| Destination device:    | SIM                                             |
| Address                |                                                 |
| TON                    | International number                            |
| NPI                    | ISDN / telephone numbering plan                 |
| Dialling number string | "112233445566778"                               |
| SMS TPDU               |                                                 |
| TP-MTI                 | SMS-DELIVER                                     |
| TP-MMS                 | No more messages waiting for the MS in this SC  |
| TP-RP                  | TP-Reply-Path is not set in this SMS-DELIVER    |
| TP-UDHI                | TP-UD field contains only the short message     |
| TP-SRI                 | A status report will not be returned to the SME |
| TP-OA                  |                                                 |
| TON                    | International number                            |
| NPI                    | ISDN / telephone numbering plan                 |
| Address value          | "1234"                                          |
| TP-PID                 | SIM Data download                               |
| TP-DCS                 |                                                 |
| Coding Group           | Data Coding / Message Class                     |
| Message Coding         | Default Alphabet                                |
| Message Class          | Class 2 SIM Specific Message                    |
| TP-SCTS:               | 01/01/98 00:00:00 +0                            |
| TP-UDL                 | 13                                              |
| TP-UD                  | "Short Message"                                 |

Coding:

BER-TLV: D1 2C 82 02 83 81 06 09 91 11 22 33  
 44 55 66 77 F8 8B 1B 04 04 91 21 43  
 7F F2 89 10 10 00 00 00 00 0D 53 F4  
 5B 4E 07 35 CB F3 79 F8 5C 06

Expected Sequence 1.6 (SMS-PP Data Download, with Data Coding / Message Class, 8 Bit Alphabet)

| Step | Direction | MESSAGE / Action                                                                        | Comments |
|------|-----------|-----------------------------------------------------------------------------------------|----------|
| 1    | SS → ME   | SMS-PP Data Download Message<br>1.6.1                                                   |          |
| 2    | ME        | The ME shall not display the<br>message or alert the user of a<br>short message waiting |          |
| 3    | ME → SIM  | ENVELOPE: SMS-PP<br>DOWNLOAD 1.6.2                                                      |          |
| 4    | SIM → ME  | SW1 / SW2 of '90 00'                                                                    |          |
| 5    | ME → SS   | RP-ACK                                                                                  |          |

**SMS-PP (Data Download) Message 1.6.1**

Logically:

|                |                                                 |
|----------------|-------------------------------------------------|
| SMS TPDU       |                                                 |
| TP-MTI         | SMS-DELIVER                                     |
| TP-MMS         | No more messages waiting for the MS in this SC  |
| TP-RP          | TP-Reply-Path is not set in this SMS-DELIVER    |
| TP-UDHI        | TP-UD field contains only the short message     |
| TP-SRI         | A status report will not be returned to the SME |
| TP-OA          |                                                 |
| TON            | International number                            |
| NPI            | ISDN / telephone numbering plan                 |
| Address value  | "1234"                                          |
| TP-PID         | SIM Data download                               |
| TP-DCS         |                                                 |
| Coding Group   | Data Coding / Message Class                     |
| Message Coding | 8 bit                                           |
| Message Class  | Class 2 SIM Specific Message                    |
| TP-SCTS:       | 01/01/98 00:00:00 +0                            |
| TP-UDL         | 13                                              |
| TP-UD          | "Short Message"                                 |

Coding:

|                 |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|
| <u>CodingBE</u> | 04 | 03 | 91 | 21 | 43 | 7F | F6 | 89 | 10 | 10 | 00 | 00 |
| <u>R-TLV:</u>   | 00 | 00 | 0D | 53 | 68 | 6F | 72 | 74 | 20 | 4D | 65 | 73 |
|                 | 73 | 61 | 67 | 65 |    |    |    |    |    |    |    |    |

**ENVELOPE: SMS-PP DOWNLOAD 1.6.2**

Logically:

|                        |                                                 |
|------------------------|-------------------------------------------------|
| SMS-PP Download        |                                                 |
| Device identities      |                                                 |
| Source device:         | Network                                         |
| Destination device:    | SIM                                             |
| Address                |                                                 |
| TON                    | International number                            |
| NPI                    | ISDN / telephone numbering plan                 |
| Dialling number string | "112233445566778"                               |
| SMS TPDU               |                                                 |
| TP-MTI                 | SMS-DELIVER                                     |
| TP-MMS                 | No more messages waiting for the MS in this SC  |
| TP-RP                  | TP-Reply-Path is not set in this SMS-DELIVER    |
| TP-UDHI                | TP-UD field contains only the short message     |
| TP-SRI                 | A status report will not be returned to the SME |
| TP-OA                  |                                                 |
| TON                    | International number                            |
| NPI                    | ISDN / telephone numbering plan                 |
| Address value          | "1234"                                          |
| TP-PID                 | SIM Data download                               |
| TP-DCS                 |                                                 |
| Coding Group           | Data Coding / Message Class                     |
| Message Coding         | 8 bit                                           |
| Message Class          | Class 2 SIM Specific Message                    |
| TP-SCTS:               | 01/01/98 00:00:00 +0                            |
| TP-UDL                 | 13                                              |

TP-UD "Short Message"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D1 | 2D | 82 | 02 | 83 | 81 | 06 | 09 | 91 | 11 | 22 | 33 |
|          | 44 | 55 | 66 | 77 | F8 | 8B | 1C | 04 | 04 | 91 | 21 | 43 |
|          | 7F | F6 | 89 | 10 | 10 | 00 | 00 | 00 | 00 | 0D | 53 | 68 |
|          | 6F | 72 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |    |

SMS-PP Data Download SIM Acknowledgement 1.2.4

Coding: 50 68 69 6C 20 48 6F 6F 6B 65 72

### 27.22.5.1.5 Test Requirements

The ME shall operate in the manner defined in expected sequences.

## 27.22.5.2 SMS-CB Data Download

### 27.22.5.2.1 Definition and applicability

This test is only applicable to ME's that support the SMS-CB Data Download proactive SIM facility.

### 27.22.5.2.2 Conformance requirement

The ME shall support the Proactive SIM: SMS-CB Data Download facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.3 (Data download to SIM), 5 (Profile Download), clause 7.2 (Cell Broadcast data download), clause 12.5 (Cell Broadcast Page), clause 12.7 (Device Identities).

### 27.22.5.2.3 Test Purpose

To verify that the ME transparently passes the "data download via SMS Cell Broadcast" messages to the SIM, which contain a message identifier found in EF<sub>CBMID</sub>.

### 27.22.5.2.4 Method of Test

#### 27.22.5.2.4.1 Initial Conditions

The ME is connected to the system Simulator and the SIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.5.2.4.2 Procedure

Expected Sequence 1 (SMS-CB (Data Download), ENVELOPE(SMS-CB DOWNLOAD), ME does not display message)

| Step | Direction | MESSAGE / Action                         | Comments                   |
|------|-----------|------------------------------------------|----------------------------|
| 1    | SS → ME   | SMS-CB (DATA DOWNLOAD)                   | Message identifier '10 01' |
| 2    | ME → SIM  | 1.1<br>ENVELOPE (SMS-CB<br>DOWNLOAD) 1.1 |                            |
| 3    | SIM → ME  | SW1, SW2 '90 00'                         |                            |

**SMS-CB (Data Download) Message 1.1**

Logically:

Message Content  
 Serial Number  
     Geographical scope: Cell wide, normal display mode  
     Message code: 1  
     Update number: 1  
     Message Identifier: "1001"  
 Data Coding Scheme  
     Message coding: 8 bit data  
     Message class: No message class  
 Page Parameter  
     Total number of pages: 1  
     Page number: 1  
     Content of message: "Cell Broadcast "..

Coding:

|                 |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|
| <u>CodingBE</u> | C0 | 11 | 10 | 01 | F4 | 11 | 43 | 65 | 6C | 6C | 20 | 42 |
| <u>R-TLV:</u>   | 72 | 6F | 61 | 64 | 63 | 61 | 73 | 74 | 20 | 20 | 20 | 20 |
|                 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                 | 20 | 20 | 20 | 20 |    |    |    |    |    |    |    |    |

**ENVELOPE: SMS-CB DOWNLOAD 1.1**

Logically:

```

Cell Broadcast Download
  Device identities
    Source device:      Network
    Destination device: SIM
  Cell Broadcast page
    Serial Number
      Geographical scope: Cell wide, normal display mode
      Message code:      1
      Update number:     1
      Message Identifier: "1001"
    Data Coding Scheme
      Message coding:    8 bit data
      Message class:    No message class
    Page Parameter
      Number of pages:  1
      Page number:      1
      Content of message: "Cell Broadcast "..
    
```

Coding:

```

BER-TLV:  D2  5E  82  02  83  81  8C  58  C0  11  10  01
          F4  11  43  65  6C  6C  20  42  72  6F  61  64
          63  61  73  74  20  20  20  20  20  20  20  20
          20  20  20  20  20  20  20  20  20  20  20  20
          20  20  20  20  20  20  20  20  20  20  20  20
          20  20  20  20  20  20  20  20  20  20  20  20
          20  20  20  20  20  20  20  20  20  20  20  20
    
```

Expected Sequence 2 (SMS-CB(DATA DOWNLOAD), ENVELOPE(SMS-CB DATA DOWNLOAD), FETCH, MORE TIME, ME does not display message)

| Step | Direction | MESSAGE / Action                | Comments                   |
|------|-----------|---------------------------------|----------------------------|
| 1    | SS → ME   | SMS-CB (DATA DOWNLOAD) 1.1      | Message identifier '10 01' |
| 2    | ME → SIM  | ENVELOPE (SMS-CB DOWNLOAD) 1.1  |                            |
| 3    | SIM → ME  |                                 | SW1/SW2 '91 0B'            |
| 4    | ME → SIM  | FETCH 1.1                       |                            |
| 5    | SIM → ME  | PROACTIVE COMMAND:MORE TIME 1.1 |                            |
| 6    | ME → SIM  | TERMINAL RESPONSE               |                            |
| 7    | SIM → ME  | SW1/SW2 '90 00'                 | SIM session ended          |

**PROACTIVE COMMAND~~roactive SIM~~: MORE TIME 1.1**

Logically:

```

Command details
  Command number:      1
  Command type:        MORE TIME
  Command qualifier:   "00"
  Device identities
    Source device:      SIM
    Destination device: ME
    
```

Coding:

BER-TLV: D0 09 81 03 01 02 00 82 02 81 82

**TERMINAL RESPONSE : MORE TIME 1.1**

Logically:

Command details

Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: SIM

Result

General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 02 00 82 02 82 81 83 01 00

Expected Sequence 3 (SMS-CB (DATA DOWNLOAD), ME displays message)

| Step | Direction | MESSAGE / Action              | Comments                   |
|------|-----------|-------------------------------|----------------------------|
| 1    | SS → ME   | SMS-CB (DATA DOWNLOAD)<br>1.2 | Message identifier '0C 0C' |

**SMS-CB (Data Download) Message 1.2**

Logically:

Message Content

Serial Number

Geographical scope: Cell wide, normal display mode

Message code: 1

Update number: 1

Message Identifier: "0C0C"

Data Coding Scheme

Message coding: 8 bit data

Message class: No message class

Page Parameter

Total number of pages: 1

Page number: 1

Content of message: "Cell Broadcast "

Coding:

BER-TLV  
Coding  
 :  
 C0 11 0C 0C F4 11 43 65 6C 6C 20 42  
 72 6F 61 64 63 61 73 74 20 20 20 20  
 20 20 20 20 20 20 20 20 20 20 20 20  
 20 20 20 20 20 20 20 20 20 20 20 20  
 20 20 20 20 20 20 20 20 20 20 20 20  
 20 20 20 20 20 20 20 20 20 20 20 20  
 20 20 20 20



**ENVELOPE: SMS-CB DOWNLOAD 1.1**

Logically:

```

Cell Broadcast Download
  Device identities
    Source device:      Network
    Destination device: SIM
  Cell Broadcast page
    Serial Number
      Geographical scope: Cell wide, normal display mode
      Message code:      1
      Update number:     1
      Message Identifier: "0C0C"
    Data Coding Scheme
      Message coding:    8 bit data
      Message class:     No message class
    Page Parameter
      Number of pages:  1
      Page number:      1
      Content of message: "Cell Broadcast "..
    
```

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D2 | 5E | 82 | 02 | 83 | 81 | 8C | 58 | C0 | 11 | 0C | 0C |
|          | F4 | 11 | 43 | 65 | 6C | 6C | 20 | 42 | 72 | 6F | 61 | 64 |
|          | 63 | 61 | 73 | 74 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|          | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|          | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|          | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|          | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

27.22.5.2.5 Test Requirements

The ME shall operate in the manner defined in expected sequences.

**27.22.6 CALL CONTROL BY SIM**

27.22.6.1 Procedure for Mobile Originated calls

27.22.6.1.1 Definition and applicability

This test is only applicable to ME's that support the CALL CONTROL SIM facility.

27.22.6.1.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 9.1.1

27.22.6.1.3 Test Purpose

To verify that for all call set-up attempts , even those resulting from a SET UP CALL proactive SIM command, the ME shall first pass the call set-up details (dialled digits and associated parameters) to the SIM, using the ENVELOPE (CALL CONTROL)

To verify that if the SIM responds with '90 00', the ME shall set up the call with the dialled digits and other parameters as sent to the SIM.

To verify that if the SIM responds with '9F XX', the ME shall use the GET RESPONSE command to get the response data. The response data from the SIM shall indicate to the ME whether to set up the call as proposed, not set up the call, set up a call using the data supplied by the SIM

To verify that, in the case where the initial call set-up request results from a proactive SET UP CALL, if the call control result is "not allowed" or "allowed with modifications", the ME shall inform the SIM using TERMINAL RESPONSE "interaction with call control by SIM or MO short message control by SIM, action not allowed".

To verify that it is possible for the SIM to request the ME to set up an emergency call by supplying the number "112" as the response data.

#### 27.22.6.1.4 method of tests

##### 27.22.6.1.4.1 Initial Conditions

The ME is connected to the System Simulator and has performed the location update procedure.

The GSM parameters of the system simulator are :

Mobile country Code (MCC) = 1,

Mobile network code (MNC) = 1,

Location Area code (LAC) = 1,

Cell Identity value = 1,

The elementary files are coded as SIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The call control service is allocated and activated in the SIM Service Table.

##### 27.22.6.1.4.2 Procedure

Expected Sequence 1.1 (CALL CONTROL BY SIM , set up call attempt by user, the SIM responds with '90 00')

| <u>Step</u> | <u>Direction</u>     | <u>Message / Action</u>                             | <u>Comments</u>                                |
|-------------|----------------------|-----------------------------------------------------|------------------------------------------------|
| <u>1</u>    | <u>User -&gt; ME</u> | <u>Set up a call to "+01234567890123456789"</u>     |                                                |
| <u>2</u>    | <u>ME -&gt; SIM</u>  | <u>ENVELOPE CALL CONTROL 1.1.1</u>                  |                                                |
| <u>3</u>    | <u>SIM -&gt; ME</u>  | <u>90 00</u>                                        |                                                |
| <u>4</u>    | <u>ME</u>            | <u>The ME sets up the call without modification</u> | <u>[Set up call to "+01234567890123456789"</u> |

**ENVELOPE CALL CONTROL 1.1.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | International                              |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | "01234567890123456789"                     |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Aera Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

|                 |           |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>D4</u> | <u>1A</u> | <u>82</u> | <u>02</u> | <u>82</u> | <u>81</u> | <u>86</u> | <u>0B</u> | <u>91</u> | <u>10</u> | <u>32</u> | <u>54</u> |
|                 | <u>76</u> | <u>98</u> | <u>10</u> | <u>32</u> | <u>54</u> | <u>76</u> | <u>98</u> | <u>13</u> | <u>07</u> | <u>00</u> | <u>F1</u> | <u>10</u> |
|                 | <u>00</u> | <u>01</u> | <u>00</u> | <u>01</u> |           |           |           |           |           |           |           |           |

Expected Sequence 1.2 (CALL CONTROL BY SIM , set up call attempt by user, allowed without modification)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                      | <u>Comments</u>                                    |
|-------------|------------------|----------------------------------------------|----------------------------------------------------|
| 1           | User -> ME       | Set up a call to<br>"+01234567890123456789"  |                                                    |
| 2           | ME -> SIM        | <u>ENVELOPE CALL CONTROL</u><br><u>1.2.1</u> |                                                    |
| 3           | SIM -> ME        | <u>9F 02</u>                                 |                                                    |
| 4           | ME -> SIM        | <u>GET RESPONSE</u>                          |                                                    |
| 5           | SIM -> ME        | <u>CALL CONTROL RESULT 1.2.1</u>             | [Call control result : "Allowed, no modification"] |
| 6           | ME               | The ME sets up the call without modification | [Set up call to "+01234567890123456789"]           |

**ENVELOPE CALL CONTROL 1.2.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | International                              |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | "01234567890123456789"                     |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Aera Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

BER-TLV: D4 1A 82 02 82 81 86 0B 91 10 32 54  
 76 98 10 32 54 76 98 13 07 00 F1 10  
 00 01 00 01

**CALL CONTROL RESULT 1.2.1**

Logically:

Call control result : 00' = Allowed, no modification

Coding

BER-TLV: 00 00

Expected Sequence 1.3 (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, allowed without modification)

| Step | Direction | Message / Action                             | Comments                                           |
|------|-----------|----------------------------------------------|----------------------------------------------------|
| 1    | SIM -> ME | PROACTIVE COMMAND PENDING                    |                                                    |
| 2    | ME->SIM   | FETCH                                        |                                                    |
| 3    | SIM -> ME | PROACTIVE COMMAND: SET UP CALL 1.3.1         | [Set up call to "+012340123456"]                   |
| 4    | ME -> SIM | ENVELOPE CALL CONTROL 1.3.1                  |                                                    |
| 5    | SIM -> ME | 9F 02                                        |                                                    |
| 6    | ME -> SIM | GET RESPONSE                                 |                                                    |
| 7    | SIM -> ME | CALL CONTROL RESULT 1.3.1                    | [Call control result : "Allowed, no modification"] |
| 8    | ME -> SIM | TERMINAL RESPONSE: SET UP CALL 1.3.1         | [command performed successfully]                   |
| 9    | ME        | The ME sets up the call without modification | [Set up call to "+012340123456"]                   |

**PROACTIVE COMMAND : SET UP CALL 1.3.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: Only if not currently busy on another call

Device identities

Source device: SIM  
 Destination device: Network  
 Alpha identifier: the initial phone number ("012340123456")

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456"

Coding

BER-TLV: D0 21 81 03 01 10 00 82 02 81 83  
 05 0D 2B 30 31 32 33 34 30 31 32  
 33 34 35 36 86 07 91 10 32 04 21  
 43 65

**ENVELOPE CALL CONTROL 1.3.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | International                              |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | "012340123456"                             |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Aera Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

|                 |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>D4</u> | <u>16</u> | <u>02</u> | <u>02</u> | <u>82</u> | <u>81</u> | <u>06</u> | <u>07</u> | <u>91</u> | <u>10</u> | <u>32</u> |
|                 | <u>04</u> | <u>21</u> | <u>43</u> | <u>65</u> | <u>13</u> | <u>07</u> | <u>00</u> | <u>F1</u> | <u>10</u> | <u>00</u> | <u>01</u> |
|                 | <u>00</u> | <u>01</u> |           |           |           |           |           |           |           |           |           |

**CALL CONTROL RESULT 1.3.1**

Logically:

Call control result : '00' = Allowed, no modification

Coding

|                 |           |           |
|-----------------|-----------|-----------|
| <u>BER-TLV:</u> | <u>00</u> | <u>00</u> |
|-----------------|-----------|-----------|

**TERMINAL RESPONSE : SET UP CALL 1.3.1**

Logically:

|                          |                                            |
|--------------------------|--------------------------------------------|
| <u>Command details</u>   |                                            |
| Command number:          | 1                                          |
| Command type:            | SET UP CALL                                |
| Command qualifier:       | Only if not currently busy on another call |
| <u>Device identities</u> |                                            |
| Source device:           | ME                                         |
| Destination device:      | SIM                                        |
| <u>Result</u>            |                                            |
| General Result:          | Command performed successfully             |

Coding:

|                 |           |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>81</u> | <u>03</u> | <u>01</u> | <u>10</u> | <u>00</u> | <u>82</u> | <u>02</u> | <u>82</u> | <u>81</u> | <u>83</u> | <u>01</u> | <u>00</u> |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

Expected Sequence 1.4 (CALL CONTROL BY SIM , set up call attempt by user, not allowed)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                  | <u>Comments</u>                       |
|-------------|------------------|------------------------------------------|---------------------------------------|
| 1           | User -> ME       | Set up a call to "+01234567890123456789" |                                       |
| 2           | ME -> SIM        | ENVELOPE CALL CONTROL 1.4.1              |                                       |
| 3           | SIM -> ME        | 9F 02                                    |                                       |
| 4           | ME -> SIM        | GET RESPONSE                             |                                       |
| 5           | SIM -> ME        | CALL CONTROL RESULT 1.4.1                | [Call control result : "not Allowed"] |
| 6           | ME               | The ME does not set up the call          |                                       |

**ENVELOPE CALL CONTROL 1.4.1**Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | International                              |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | “+01234567890123456789”                    |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Area Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

|                 |           |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>D4</u> | <u>1A</u> | <u>82</u> | <u>02</u> | <u>82</u> | <u>81</u> | <u>86</u> | <u>0B</u> | <u>91</u> | <u>10</u> | <u>32</u> | <u>54</u> |
|                 | <u>76</u> | <u>98</u> | <u>10</u> | <u>32</u> | <u>54</u> | <u>76</u> | <u>98</u> | <u>13</u> | <u>07</u> | <u>00</u> | <u>F1</u> | <u>10</u> |
|                 | <u>00</u> | <u>01</u> | <u>00</u> | <u>01</u> |           |           |           |           |           |           |           |           |

**CALL CONTROL RESULT 1.4.1**Logically:

Call control result : '01' = not Allowed

Coding

|                 |           |           |
|-----------------|-----------|-----------|
| <u>BER-TLV:</u> | <u>01</u> | <u>00</u> |
|-----------------|-----------|-----------|

Expected Sequence 1.5 (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, not allowed)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                 | <u>Comments</u>                                              |
|-------------|------------------|-----------------------------------------|--------------------------------------------------------------|
| 1           | SIM -> ME        | PROACTIVE COMMAND<br>PENDING            |                                                              |
| 2           | ME->SIM          | FETCH                                   |                                                              |
| 3           | SIM -> ME        | PROACTIVE COMMAND: SET<br>UP CALL 1.5.1 | [Set up call to “+012340123456”]                             |
| 4           | ME -> SIM        | ENVELOPE CALL CONTROL<br>1.5.1          |                                                              |
| 5           | SIM -> ME        | 9F 02                                   |                                                              |
| 6           | ME -> SIM        | GET RESPONSE                            |                                                              |
| 7           | SIM -> ME        | CALL CONTROL RESULT 1.5.1               | [Call control result : “Not Allowed”]                        |
| 8           | ME -> SIM        | TERMINAL RESPONSE: SET UP<br>CALL 1.5.1 | Permanent Problem – Interaction with<br>Call Control by SIM] |
| 9           | ME               | The ME does not set up the call         |                                                              |

**PROACTIVE COMMAND : SET UP CALL 1.5.1**

Logically:

|                          |                                            |
|--------------------------|--------------------------------------------|
| <u>Command details</u>   |                                            |
| Command number:          | 1                                          |
| Command type:            | SET UP CALL                                |
| Command qualifier:       | Only if not currently busy on another call |
| <u>Device identities</u> |                                            |
| Source device:           | SIM                                        |
| Destination device:      | Network                                    |
| Alpha identifier:        | the initial phone number (“+012340123456”) |
| <u>Address</u>           |                                            |
| TON:                     | International                              |
| NPI:                     | ISDN / telephone numbering plan            |
| Dialling number string   | “012340123456”                             |

Coding

|                 |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>D0</u> | <u>21</u> | <u>81</u> | <u>03</u> | <u>01</u> | <u>10</u> | <u>00</u> | <u>82</u> | <u>02</u> | <u>81</u> | <u>83</u> |
|                 | <u>05</u> | <u>0D</u> | <u>2B</u> | <u>30</u> | <u>31</u> | <u>32</u> | <u>33</u> | <u>34</u> | <u>30</u> | <u>31</u> | <u>32</u> |
|                 | <u>33</u> | <u>34</u> | <u>35</u> | <u>36</u> | <u>86</u> | <u>07</u> | <u>91</u> | <u>10</u> | <u>32</u> | <u>04</u> | <u>21</u> |
|                 | <u>43</u> | <u>65</u> |           |           |           |           |           |           |           |           |           |

**ENVELOPE CALL CONTROL 1.5.1**Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | International                              |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | “012340123456”                             |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Area Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

|                 |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>D4</u> | <u>16</u> | <u>02</u> | <u>02</u> | <u>82</u> | <u>81</u> | <u>06</u> | <u>07</u> | <u>91</u> | <u>10</u> | <u>32</u> |
|                 | <u>04</u> | <u>21</u> | <u>43</u> | <u>65</u> | <u>13</u> | <u>07</u> | <u>00</u> | <u>F1</u> | <u>10</u> | <u>00</u> | <u>01</u> |
|                 | <u>00</u> | <u>01</u> |           |           |           |           |           |           |           |           |           |

**CALL CONTROL RESULT 1.5.1**Logically:

|                       |                    |
|-----------------------|--------------------|
| Call control result : | '01' = not Allowed |
|-----------------------|--------------------|

Coding

|                 |           |           |
|-----------------|-----------|-----------|
| <u>BER-TLV:</u> | <u>01</u> | <u>00</u> |
|-----------------|-----------|-----------|

**TERMINAL RESPONSE : SET UP CALL 1.5.1**

Logically:

Command details  
Command number: 1  
Command type: SET UP CALL  
Command qualifier: Only if not currently busy on another call

Device identities  
Source device: ME  
Destination device: SIM

Result  
General Result: Interaction with call control by SIM or MO short message control by SIM, permanent problem  
Additional information : Action not allowed

Coding:

BER-TLV:    81    03    01    10    00    82    02    82    81    83    02    39  
                  01

Expected Sequence 1.6 (CALL CONTROL BY SIM , set up call attempt by user, allowed with modifications)

| <u>Step</u> | <u>Direction</u>     | <u>Message / Action</u>                         | <u>Comments</u>                                               |
|-------------|----------------------|-------------------------------------------------|---------------------------------------------------------------|
| <u>1</u>    | <u>User -&gt; ME</u> | <u>Set up a call to "+01234567890123456789"</u> |                                                               |
| <u>2</u>    | <u>ME -&gt; SIM</u>  | <u>ENVELOPE CALL CONTROL 1.6.1</u>              |                                                               |
| <u>3</u>    | <u>SIM -&gt; ME</u>  | <u>9F 07</u>                                    |                                                               |
| <u>4</u>    | <u>ME -&gt; SIM</u>  | <u>GET RESPONSE</u>                             |                                                               |
| <u>5</u>    | <u>SIM -&gt; ME</u>  | <u>CALL CONTROL RESULT 1.6.1</u>                | <u>[Call control result : "Allowed with modifications", ]</u> |
| <u>6</u>    | <u>ME</u>            | <u>The ME sets up the call to "+010203"</u>     |                                                               |



**ENVELOPE CALL CONTROL 1.6.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | International                              |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | "01234567890123456789"                     |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Aera Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

|                 |           |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>D4</u> | <u>1A</u> | <u>82</u> | <u>02</u> | <u>82</u> | <u>81</u> | <u>86</u> | <u>0B</u> | <u>91</u> | <u>10</u> | <u>32</u> | <u>54</u> |
|                 | <u>76</u> | <u>98</u> | <u>10</u> | <u>32</u> | <u>54</u> | <u>76</u> | <u>98</u> | <u>13</u> | <u>07</u> | <u>00</u> | <u>F1</u> | <u>10</u> |
|                 | <u>00</u> | <u>01</u> | <u>00</u> | <u>01</u> |           |           |           |           |           |           |           |           |

**CALL CONTROL RESULT 1.6.1**

Logically:

|                        |                                            |
|------------------------|--------------------------------------------|
| Call control result :  | '02' = Allowed with modifications          |
| <u>Address</u>         |                                            |
| TON:                   | International                              |
| NPI:                   | ISDN / telephone numbering plan or unknown |
| Dialling number string | "010203"                                   |

Coding

|                |           |           |           |           |           |           |           |           |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>Coding:</u> | <u>02</u> | <u>06</u> | <u>86</u> | <u>04</u> | <u>91</u> | <u>10</u> | <u>20</u> | <u>30</u> |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

Expected Sequence 1.7 (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, allowed with modifications)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                    | <u>Comments</u>                                        |
|-------------|------------------|--------------------------------------------|--------------------------------------------------------|
| 1           | SIM -> ME        | PROACTIVE COMMAND PENDING                  |                                                        |
| 2           | ME->SIM          | FETCH                                      |                                                        |
| 3           | SIM -> ME        | PROACTIVE COMMAND: SET UP CALL 1.7.1       | [Set up call to "+012340123456"]                       |
| 4           | ME -> SIM        | ENVELOPE CALL CONTROL 1.7.1                |                                                        |
| 5           | SIM -> ME        | 9F 0B                                      |                                                        |
| 6           | ME -> SIM        | GET RESPONSE                               |                                                        |
| 7           | SIM -> ME        | CALL CONTROL RESULT 1.7.1                  | [Call control result : "Allowed with modifications", ] |
| 8           | ME -> SIM        | TERMINAL RESPONSE: SET UP CALL 1.7.1       | [command performed successfully]                       |
| 9           | ME               | The ME sets up the call to "+011111111111" |                                                        |

**PROACTIVE COMMAND : SET UP CALL 1.7.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | National                                   |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | " +012340123456 "                          |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Aera Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

|                 |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>D4</u> | <u>15</u> | <u>02</u> | <u>02</u> | <u>82</u> | <u>81</u> | <u>06</u> | <u>06</u> | <u>80</u> | <u>FB</u> | <u>21</u> |
|                 | <u>43</u> | <u>10</u> | <u>32</u> | <u>13</u> | <u>07</u> | <u>00</u> | <u>F1</u> | <u>10</u> | <u>00</u> | <u>01</u> | <u>00</u> |
|                 | <u>01</u> |           |           |           |           |           |           |           |           |           |           |

**ENVELOPE CALL CONTROL 1.7.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | International                              |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | " 012340123456 "                           |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Aera Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

|                 |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>D4</u> | <u>16</u> | <u>02</u> | <u>02</u> | <u>82</u> | <u>81</u> | <u>06</u> | <u>07</u> | <u>91</u> | <u>10</u> | <u>32</u> |
|                 | <u>04</u> | <u>21</u> | <u>43</u> | <u>65</u> | <u>13</u> | <u>07</u> | <u>00</u> | <u>F1</u> | <u>10</u> | <u>00</u> | <u>01</u> |
|                 | <u>00</u> | <u>01</u> |           |           |           |           |           |           |           |           |           |

**CALL CONTROL RESULT 1.7.1**

Logically:

|                        |                                            |
|------------------------|--------------------------------------------|
| Call control result :  | '02' = Allowed with modifications          |
| <u>Address</u>         |                                            |
| TON:                   | National                                   |
| NPI:                   | ISDN / telephone numbering plan or unknown |
| Dialling number string | " +012340123450 "                          |

Coding

|                 |           |           |           |           |           |           |           |           |           |           |           |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <u>BER-TLV:</u> | <u>02</u> | <u>0A</u> | <u>86</u> | <u>06</u> | <u>07</u> | <u>91</u> | <u>10</u> | <u>11</u> | <u>11</u> | <u>11</u> | <u>11</u> |
|                 | <u>11</u> |           |           |           |           |           |           |           |           |           |           |

**TERMINAL RESPONSE : SET UP CALL 1.7.1**

Logically:

Command details  
Command number: 1  
Command type: SET UP CALL  
Command qualifier: Only if not currently busy on another call  
Device identities  
Source device: ME  
Destination device: SIM  
Result  
General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 10 00 82 02 82 81 83 01 00

Expected Sequence 1.8 (CALL CONTROL BY SIM , set up call attempt by user, allowed with modifications : emergency call)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                    | <u>Comments</u>                                        |
|-------------|------------------|--------------------------------------------|--------------------------------------------------------|
| 1           | User -> ME       | Set up a call to "+01234567890123456789"   |                                                        |
| 2           | ME -> SIM        | ENVELOPE CALL CONTROL 1.8.1                |                                                        |
| 3           | SIM -> ME        | 9F.06                                      |                                                        |
| 4           | ME -> SIM        | GET RESPONSE                               |                                                        |
| 5           | SIM -> ME        | CALL CONTROL RESULT 1.8.1                  | [Call control result : "Allowed with modifications",.] |
| 6           | ME               | The ME sets up the emergency call to "112" |                                                        |

**ENVELOPE CALL CONTROL 1.8.1**

Logically:

Device identities  
Source device: ME  
Destination device: SIM  
Address  
TON: International  
NPI: ISDN / telephone numbering plan or unknown  
Dialling number string "01234567890123456789"  
Location Information  
MCC & MNC the mobile country and network code (F110)  
LAC the location Area Code (1)  
Cell ID Cell Identity Value (0001)

Coding

BER-TLV: D4 1A 82 02 82 81 86 0B 91 10 32 54  
 76 98 10 32 54 76 98 13 07 00 F1 10  
 00 01 00 01

**CALL CONTROL RESULT 1.8.1**

Logically:

|                     |                                 |
|---------------------|---------------------------------|
| Call control result | Allowed, with modification      |
| Address             |                                 |
| TON                 | Unknown                         |
| NPI                 | ISDN / telephone numbering plan |
| Address value       | "112"                           |

Coding: 02 05 86 03 81 11 F2

Expected Sequence 1.9 (CALL CONTROL BY SIM , set up call attempt by user to an emergency call )

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                                                         | <u>Comments</u> |
|-------------|------------------|---------------------------------------------------------------------------------|-----------------|
| 1           | User -> ME       | Set up a call to "112"                                                          |                 |
| 2           | ME               | The ME does not send any ENVELOPE CALL CONTROL 1.9.1, set up the emergency call |                 |

Expected Sequence 1.9 (CALL CONTROL BY SIM , set up call attempt by user, allowed with modifications : number in EF<sub>ECC</sub>)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                                                                      | <u>Comments</u>                                        |
|-------------|------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1           | User -> ME       | Set up a call to "+01234567890123456789"                                                     |                                                        |
| 2           | ME -> SIM        | ENVELOPE CALL CONTROL 1.9.1                                                                  |                                                        |
| 3           | SIM -> ME        | 9F.06                                                                                        |                                                        |
| 4           | ME -> SIM        | GET RESPONSE                                                                                 |                                                        |
| 5           | SIM -> ME        | CALL CONTROL RESULT 1.9.1                                                                    | [Call control result : "Allowed with modifications",.] |
| 6           | ME               | The ME sets up call with the dialled digits "1020". The ME does not set up an emergency call |                                                        |

**ENVELOPE CALL CONTROL 1.9.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | International                              |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | "01234567890123456789"                     |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Area Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

BER-TLV: D4 1A 82 02 82 81 86 0B 91 10 32 54  
 76 98 10 32 54 76 98 13 07 00 F1 10  
 00 01 00 01

**CALL CONTROL RESULT 1.9.1**

Logically:

|                     |                                 |
|---------------------|---------------------------------|
| Call control result | Allowed, with modification      |
| Address             |                                 |
| TON                 | Unknown                         |
| NPI                 | ISDN / telephone numbering plan |
| Address value       | "1020"                          |

Coding:    02    05    86    03    81    01    02

TBD

## 27.22.6.2 Procedure for Supplementary (SS) Services

TBD

### 27.22.6.2.1 Definition and applicability

This test is only applicable to ME's that support the CALL CONTROL SIM facility.

The call control by SIM function allows the SIM to determine which supplementary service control strings are used.

#### 27.22.6.2.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 9.1.2

#### 27.22.6.2.3 Test Purpose

To verify that the ME first pass the supplementary service control string corresponding to the supplementary service operation to the SIM, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the SIM responds with '90 00', the ME shall send the supplementary service operation with the information as sent to the SIM.

To verify that, if the SIM responds with '9F XX', the ME shall use the GET RESPONSE command to get the response data. The response data from the SIM shall indicate to the ME whether to send the supplementary service operation as proposed, not send the SS operation, or instead send the SS operation using the data supplied by the SIM.

#### 27.22.6.2.4 method of tests

##### 27.22.6.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The call control service is allocated and activated in the SIM Service Table.

##### 27.22.6.2.4.2 Procedure

Expected Sequence 2.1 (CALL CONTROL BY SIM , send SS, the SIM responds with '90 00')

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                                                                                                                                            | <u>Comments</u> |
|-------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1           | User -> ME       | The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator). |                 |
| 2           | ME -> SIM        | ENVELOPE CALL CONTROL 2.1.1                                                                                                                                        |                 |
| 3           | SIM -> ME        | 90 00                                                                                                                                                              |                 |
| 4           | ME               | The ME sends the supplementary service operation with the information as sent to the SIM                                                                           |                 |

**ENVELOPE CALL CONTROL 2.1.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | Unknown                                    |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | “*21*#”                                    |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Area Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

BER-TLV:    D4    13    82    02    82    81    89    04    81    2A    A1    FB  
               13    07    00    F1    10    00    01    00    01

Expected Sequence 2.2 (CALL CONTROL BY SIM , send SS, allowed without modifications)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                                                                                                                                            | <u>Comments</u>                                         |
|-------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1           | User -> ME       | The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator). |                                                         |
| 2           | ME -> SIM        | ENVELOPE CALL CONTROL 2.2.1                                                                                                                                        |                                                         |
| 3           | SIM -> ME        | 9F 02                                                                                                                                                              |                                                         |
| 4           | ME -> SIM        | GET RESPONSE                                                                                                                                                       |                                                         |
| 5           | SIM -> ME        | CALL CONTROL RESULT 2.2.1                                                                                                                                          | [Call control result : “Allowed without modifications”] |
| 6           | ME               | The ME sends the supplementary service operation with the information as sent to the SIM                                                                           |                                                         |

**ENVELOPE CALL CONTROL 2.2.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | Unknown                                    |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | “*21*#”                                    |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Area Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

BER-TLV:    D4   13   82   02   82   81   89   04   81   2A   A1   FB  
                   13   07   00   F1   10   00   01   00   01

**CALL CONTROL RESPONSE**Call Control Response 2.2.1

Logically:

Call control result                      Allowed, no modifications

Coding:            00    00

Expected Sequence 2.3 (CALL CONTROL BY SIM , send SS, not allowed)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                                                                                                                                            | <u>Comments</u>                       |
|-------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 1           | User -> ME       | The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator). |                                       |
| 2           | ME -> SIM        | ENVELOPE CALL CONTROL 2.3.1                                                                                                                                        |                                       |
| 3           | SIM -> ME        | 9F 02                                                                                                                                                              |                                       |
| 4           | ME -> SIM        | GET RESPONSE                                                                                                                                                       |                                       |
| 5           | SIM -> ME        | CALL CONTROL RESULT 2.3.1                                                                                                                                          | [Call control result : "Not Allowed"] |
| 6           | ME               | The ME does not send the supplementary service operation                                                                                                           |                                       |

**ENVELOPE CALL CONTROL 2.3.1**Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | Unknown                                    |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | “*21*#”                                    |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Aera Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

BER-TLV: D4 13 82 02 82 81 89 04 81 2A A1 FB  
13 07 00 F1 10 00 01 00 01

**CALL CONTROL RESPONSE Call Control Response 2.3.1**Logically:

|                     |             |
|---------------------|-------------|
| Call control result | Not Allowed |
|---------------------|-------------|

Coding: 01 00

Expected Sequence 2.4 (CALL CONTROL BY SIM , send SS, allowed with modifications)

| <u>Step</u> | <u>Direction</u>     | <u>Message / Action</u>                                                                                                                                                   | <u>Comments</u>                                             |
|-------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <u>1</u>    | <u>User -&gt; ME</u> | <u>The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).</u> |                                                             |
| <u>2</u>    | <u>ME -&gt; SIM</u>  | <u>ENVELOPE CALL CONTROL 2.4.1</u>                                                                                                                                        |                                                             |
| <u>3</u>    | <u>SIM -&gt; ME</u>  | <u>9F 07</u>                                                                                                                                                              |                                                             |
| <u>4</u>    | <u>ME -&gt; SIM</u>  | <u>GET RESPONSE</u>                                                                                                                                                       |                                                             |
| <u>5</u>    | <u>SIM -&gt; ME</u>  | <u>CALL CONTROL RESULT 2.4.1</u>                                                                                                                                          | <u>[Call control result : “Allowed with modifications”]</u> |
| <u>6</u>    | <u>ME</u>            | <u>The ME sends the supplementary service operation with the information as sent by the SIM</u>                                                                           |                                                             |



**ENVELOPE CALL CONTROL 2.4.1**Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON:                        | Unknown                                    |
| NPI:                        | ISDN / telephone numbering plan or unknown |
| Dialling number string      | “*21*#”                                    |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Area Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding

BER-TLV: D4 13 82 02 82 81 89 04 81 2A A1 FB  
13 07 00 F1 10 00 01 00 01

**CALL CONTROL RESPONSE all Control Response 2.4.1**Logically:

|                     |                                 |
|---------------------|---------------------------------|
| Call control result | Allowed, with modifications     |
| <u>SS String</u>    |                                 |
| TON                 | Unknown                         |
| NPI                 | ISDN / telephone numbering plan |
| SS String           | “*#21#”                         |

Coding: 02 06 89 04 81 BA 12 FB

**27.22.6.3 Interaction with Fixed Dialling Number (FDN)**

TBD

**27.22.6.3.1 Definition and applicability**

This test is only applicable to ME's that support both the call control by SIM facility and Fixed Dialling Numbers (FDN).

The call control by SIM facility allows the SIM to use the FDN list of allowed destination MSISDNs.

**27.22.6.3.2 Conformance requirement**

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 9.1.4

**27.22.6.2.3 Test Purpose**

To verify that the ME checks that the number entered through the MMI is on the FDN list.

To verify that, if the MMI input does not pass the FDN check, the call shall not be set up.

To verify that, if the MMI input does pass the FDN check, the ME shall pass the dialled digits and other parameters to the SIM, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the SIM responds with "allowed, no modification", the ME shall set up the call as proposed.

To verify that, if the SIM responds with "not allowed", the ME shall not set up the call.

To verify that, if the SIM responds with "allowed with modifications", the ME shall set up the call in accordance with the response from the SIM. If the modifications involve changing the dialled digits, the ME shall not re-check this modified number against the FDN list.

#### 27.22.6.2.4 method of tests

##### 27.22.6.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The call control service is allocated and activated in the SIM Service Table.

Fixed Dialling Number service is enabled.

##### 27.22.6.2.4.2 Procedure

Expected Sequence 3.1 (CALL CONTROL BY SIM , set up a call not in EF<sub>FDN</sub>)

| <u>Step</u> | <u>Direction</u>     | <u>Message / Action</u>                                                                                  | <u>Comments</u> |
|-------------|----------------------|----------------------------------------------------------------------------------------------------------|-----------------|
| <u>1</u>    | <u>User -&gt; ME</u> | <u>The user sets up a call to "4321"</u>                                                                 |                 |
| <u>2</u>    | <u>ME</u>            | <u>The ME does not send the ENVELOPE (CALL CONTROL) command to the SIM and does not set up the call.</u> |                 |

Expected Sequence 3.2 (CALL CONTROL BY SIM , set up a call in EF<sub>FDN</sub> , the SIM responds with '90 00')

| <u>Step</u> | <u>Direction</u>     | <u>Message / Action</u>                             | <u>Comments</u>               |
|-------------|----------------------|-----------------------------------------------------|-------------------------------|
| <u>1</u>    | <u>User -&gt; ME</u> | <u>The user sets up a call to "123"</u>             |                               |
| <u>2</u>    | <u>ME -&gt; SIM</u>  | <u>ENVELOPE CALL CONTROL 3.2.1</u>                  |                               |
| <u>3</u>    | <u>SIM -&gt; ME</u>  | <u>90 00</u>                                        |                               |
| <u>4</u>    | <u>ME</u>            | <u>The ME sets up the call without modification</u> | <u>[Set up call to "123"]</u> |

**ENVELOPE CALL CONTROL 3.2.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON                         | Unknown                                    |
| NPI                         | ISDN / telephone numbering plan            |
| Dialling number string      | "123"                                      |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Aera Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding:

BER-TLV:   D4   12   82   02   82   81   86   03   81   23   F1   13  
               07   00   F1   10   00   01   00   01

Expected Sequence 3.3 (CALL CONTROL BY SIM , set up a call in EF<sub>FDN</sub> , Allowed without modifications)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                      | <u>Comments</u>                                         |
|-------------|------------------|----------------------------------------------|---------------------------------------------------------|
| 1           | User -> ME       | The user sets up a call to "9876"            |                                                         |
| 2           | ME -> SIM        | <u>ENVELOPE CALL CONTROL 3.3.1</u>           |                                                         |
| 3           | SIM -> ME        | 9F 02                                        |                                                         |
| 4           | ME -> SIM        | <u>GET RESPONSE</u>                          |                                                         |
| 5           | SIM -> ME        | <u>CALL CONTROL RESULT 3.3.1</u>             | [Call control result : "Allowed without modifications"] |
| 6           | ME               | The ME sets up the call without modification | [Set up call to "9876"]                                 |

**ENVELOPE CALL CONTROL 3.3.1**

Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON                         | Unknown                                    |
| NPI                         | ISDN / telephone numbering plan            |
| Dialling number string      | "9876"                                     |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Aera Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding:

BER-TLV:   D4   12   82   02   82   81   86   03   81   89   67   13  
               07   00   F1   10   00   01   00   01

**CALL CONTROL RESPONSE all-Control Response 3.3.1**

Logically:

Call control result Allowed, no modifications

Coding: 00 00

Expected Sequence 3.4 (CALL CONTROL BY SIM , set up a call in EF<sub>FDN</sub> , Not Allowed)

| Step | Direction  | Message / Action                  | Comments                              |
|------|------------|-----------------------------------|---------------------------------------|
| 1    | User -> ME | The user sets up a call to "9876" |                                       |
| 2    | ME -> SIM  | ENVELOPE CALL CONTROL 3.4.1       |                                       |
| 3    | SIM -> ME  | 9F 02                             |                                       |
| 4    | ME -> SIM  | GET RESPONSE                      |                                       |
| 5    | SIM -> ME  | CALL CONTROL RESULT 3.4.1         | [Call control result : "Not Allowed"] |
| 6    | ME         | The ME does not set up the call   |                                       |

**ENVELOPE CALL CONTROL 3.4.1**

Logically:

Device identities

Source device: ME

Destination device: SIM

Address

TON Unknown

NPI ISDN / telephone numbering plan

Dialling number string "9876"

Location Information

MCC & MNC the mobile country and network code (F110)

LAC the location Aera Code (1)

Cell ID Cell Identity Value (0001)

Coding:

BER-TLV: D4 12 82 02 82 81 86 03 81 89 67 13  
 07 00 F1 10 00 01 00 01

**CALL CONTROL RESPONSE all-Control Response 3.4.1**

Logically:

Call control result Not Allowed

Coding: 01 00

Expected Sequence 3.5 (CALL CONTROL BY SIM , set up a call in EF<sub>FDN</sub> , Allowed with modifications)

| Step | Direction  | Message / Action                                  | Comments                                             |
|------|------------|---------------------------------------------------|------------------------------------------------------|
| 1    | User -> ME | The user sets up a call to "9876"                 |                                                      |
| 2    | ME -> SIM  | ENVELOPE CALL CONTROL 3.5.1                       |                                                      |
| 3    | SIM -> ME  | 9F 07                                             |                                                      |
| 4    | ME -> SIM  | GET RESPONSE                                      |                                                      |
| 5    | SIM -> ME  | CALL CONTROL RESULT 3.5.1                         | [Call control result : "Allowed with modifications"] |
| 6    | ME         | The ME sets up the call with data sent by the SIM | [Set up call to "3333"]                              |

**ENVELOPE CALL CONTROL 3.5.1**Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON                         | Unknown                                    |
| NPI                         | ISDN / telephone numbering plan            |
| Dialling number string      | "9876"                                     |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Area Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding:

BER-TLV:    D4   12   82   02   82   81   86   03   81   89   67   13  
                   07   00   F1   10   00   01   00   01

**CALL CONTROL RESPONSE all Control Response 3.5.1**Logically:

|                     |                                 |
|---------------------|---------------------------------|
| Call control result | Allowed with modifications      |
| <u>Address</u>      |                                 |
| TON                 | Unknown                         |
| NPI                 | ISDN / telephone numbering plan |
| Address value       | "3333"                          |

Coding:    02   05   86   03   81   33   33

**27.22.6.4 Support of Barred Dialling Number (BDN) service**

TBD

**27.22.6.4.1 Definition and applicability**

This test is only applicable to ME's that support both the call control by SIM facility and Barred Dialling Numbers (BDN).

The call control by SIM facility allows the SIM to use the BDN list of not allowed destination MSISDNs.

**27.22.6.4.2 Conformance requirement**

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

TS GSM 11.14 [15] clause 9.1.5.

**27.22.6.2.3 Test Purpose**

To verify that, if Barred Dialling Number service is enabled, the ME checks the number entered through the MMI against EF<sub>BDN</sub>.

To verify that, if the SIM responds with "not allowed", the ME does not set up the call.

To verify that, if the SIM responds with "allowed, no modification", the ME shall set up the call (or the supplementary service operation) as proposed.

To verify that, if the SIM responds with "allowed with modifications", the ME sets up the call in accordance with the response from the SIM. If the modifications involve changing the dialled number the ME does not re-check this modified number against the FDN list when FDN is enabled.

27.22.6.2.4 method of tests

27.22.6.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as SIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The call control service is allocated and activated in the SIM Service Table.

Barred Dialling Number service is enabled.

27.22.6.2.4.2 Procedure

Expected Sequence 4.1 (CALL CONTROL BY SIM , set up a call in EF<sub>BDN</sub>)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>          | <u>Comments</u>                       |
|-------------|------------------|----------------------------------|---------------------------------------|
| 1           | User -> ME       | The user sets up a call to "321" |                                       |
| 2           | ME -> SIM        | ENVELOPE CALL CONTROL 4.1.1      |                                       |
| 3           | SIM -> ME        | 9F 02                            |                                       |
| 4           | ME -> SIM        | GET RESPONSE                     |                                       |
| 5           | SIM -> ME        | CALL CONTROL RESULT 4.1.1        | [Call control result : "Not Allowed"] |
| 6           | ME               | The ME does not set up the call  |                                       |

**ENVELOPE CALL CONTROL 4.1.1**

Logically:

Device identities

Source device: ME

Destination device: SIM

Address

TON Unknown

NPI ISDN / telephone numbering plan

Dialling number string "321"

Location Information

MCC & MNC the mobile country and network code (F110)

LAC the location Area Code (1)

Cell ID Cell Identity Value (0001)

Coding:

BER-TLV: D4 12 82 02 82 81 86 03 81 23 F1 13  
 07 00 F1 10 00 01 00 01

**CALL CONTROL RESPONSE all Control Response 4.1.1**

Logically:

Call control result Not Allowed

Coding: 01 00

Expected Sequence 4.2 (CALL CONTROL BY SIM , set up a call not in EF<sub>BDN</sub> , Allowed without modifications)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                      | <u>Comments</u>                                         |
|-------------|------------------|----------------------------------------------|---------------------------------------------------------|
| 1           | User -> ME       | The user sets up a call to "1234"            |                                                         |
| 2           | ME -> SIM        | ENVELOPE CALL CONTROL 4.2.1                  |                                                         |
| 3           | SIM -> ME        | 9F 02                                        |                                                         |
| 4           | ME -> SIM        | GET RESPONSE                                 |                                                         |
| 5           | SIM -> ME        | CALL CONTROL RESULT 4.2.1                    | [Call control result : "Allowed without modifications"] |
| 6           | ME               | The ME sets up the call without modification | [Set up call to "1234"]                                 |

**ENVELOPE CALL CONTROL 4.2.1**

Logically:

Device identities

Source device: ME

Destination device: SIM

Address

TON Unknown

NPI ISDN / telephone numbering plan

Dialling number string "1234"

Location Information

MCC & MNC the mobile country and network code (F110)

LAC the location Area Code (1)

Cell ID Cell Identity Value (0001)

Coding:

BER-TLV: D4 12 82 02 82 81 86 03 81 21 43 13  
07 00 F1 10 00 01 00 01

**CALL CONTROL RESPONSE all Control Response 4.2.1**

Logically:

Call control result Allowed, no modifications

Coding: 00 00

Expected Sequence 4.3 (CALL CONTROL BY SIM , set up a call not in EF<sub>BDN</sub> , Allowed with modifications)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                           | <u>Comments</u>                                      |
|-------------|------------------|---------------------------------------------------|------------------------------------------------------|
| 1           | User -> ME       | The user sets up a call to "1111"                 |                                                      |
| 2           | ME -> SIM        | ENVELOPE CALL CONTROL<br>4.3.1                    |                                                      |
| 3           | SIM -> ME        | 9F 07                                             |                                                      |
| 4           | ME -> SIM        | GET RESPONSE                                      |                                                      |
| 5           | SIM -> ME        | CALL CONTROL RESULT 4.3.1                         | [Call control result : "Allowed with modifications"] |
| 6           | ME               | The ME sets up the call with data sent by the SIM | [Set up call to "2222"]                              |

### ENVELOPE CALL CONTROL 4.3.1

#### Logically:

##### Device identities

Source device: ME  
Destination device: SIM

##### Address

TON Unknown  
NPI ISDN / telephone numbering plan  
Dialling number string "9876"

##### Location Information

MCC & MNC the mobile country and network code (F110)  
LAC the location Area Code (1)  
Cell ID Cell Identity Value (0001)

#### Coding:

BER-TLV: D4 12 82 02 82 81 86 03 81 11 11 13  
07 00 F1 10 00 01 00 01

### CALL CONTROL RESPONSE all Control Response 4.3.1

#### Logically:

Call control result Allowed with modifications

##### Address

TON Unknown  
NPI ISDN / telephone numbering plan  
Address value "2222"

Coding: 02 05 86 03 81 22 22

Expected Sequence 4.4 (CALL CONTROL BY SIM , FDN and BDN enabled, set up a call in EF<sub>FDN</sub>, Allowed with modifications)

| <u>Step</u> | <u>Direction</u> | <u>Message / Action</u>                           | <u>Comments</u>                                                                                |
|-------------|------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1           | User -> ME       | The user sets up a call to "123"                  |                                                                                                |
| 2           | ME -> SIM        | ENVELOPE CALL CONTROL<br>4.4.1                    |                                                                                                |
| 3           | SIM -> ME        | 9F 0A                                             |                                                                                                |
| 4           | ME -> SIM        | GET RESPONSE                                      |                                                                                                |
| 5           | SIM -> ME        | CALL CONTROL RESULT 4.4.1                         | [Call control result : "Allowed with modifications"]                                           |
| 6           | ME               | The ME sets up the call with data sent by the SIM | [Set up call to "987654321"the ME does not re-check this modified number against the FDN list] |



**ENVELOPE CALL CONTROL 4.4.1**Logically:

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <u>Device identities</u>    |                                            |
| Source device:              | ME                                         |
| Destination device:         | SIM                                        |
| <u>Address</u>              |                                            |
| TON                         | Unknown                                    |
| NPI                         | ISDN / telephone numbering plan            |
| Dialling number string      | "9876"                                     |
| <u>Location Information</u> |                                            |
| MCC & MNC                   | the mobile country and network code (F110) |
| LAC                         | the location Aera Code (1)                 |
| Cell ID                     | Cell Identity Value (0001)                 |

Coding:

BER-TLV: D4 12 82 02 82 81 86 03 81 89 67 13  
07 00 F1 10 00 01 00 01

**CALL CONTROL RESPONSE all Control Response 4.4.1**Logically:

|                     |                                 |
|---------------------|---------------------------------|
| Call control result | Allowed with modifications      |
| <u>Address</u>      |                                 |
| TON                 | Unknown                         |
| NPI                 | ISDN / telephone numbering plan |
| Address value       | "987654321"                     |

Coding: 02 08 86 06 81 89 67 45 23 F1

**27.22.7 EVENT DOWNLOAD****27.22.78.1 MT Call Event****27.22.78.1.1 MT Call Event (normal)****27.22.78.1.1.1 Definition and applicability**

This test is only applicable to ME's that support the EVENT: MT Call event driven information.

**27.22.78.1.1.2 Conformance requirement**

The ME shall support the EVENT: MT Call event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.16, 6.8 (Terminal Response), 11, 11.1, 12.25

**27.22.87.1.1.3 Test Purpose**

To verify that the ME informs the SIM the an Event: MT Call has occurred using the ENVELOPE (EVENT DOWNLOAD – MT Call) command.

27.22.87.1.1.4 Method of test

27.22.87.1.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator and the System Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.87.1.1.4.2 Procedure

Expected Sequence 1

| Step | Direction | Message / Action                             | Behaviour                                 |
|------|-----------|----------------------------------------------|-------------------------------------------|
| 1    | SIM -> ME | PROACTIVE COMMAND<br>PENDING                 |                                           |
| 2    | ME -> SIM | FETCH                                        |                                           |
| 3    | SIM -> ME | PROACTIVE COMMAND: SET<br>UP EVENT LIST 05.1 |                                           |
| 4    | ME -> SIM | TERMINAL RESPONSE: SET UP<br>EVENT LIST 05.1 |                                           |
| 5    | SS -> ME  | CALL SET UP 05.1                             | [MT Call Set Up Without CLI]              |
| 6    | ME -> SIM | ENVELOPE: EVENT<br>DOWNLOAD – MT Call 05.1   |                                           |
| 7    | SS -> ME  | CALL DISCONNECT 05.1                         |                                           |
| 8    | SS -> ME  | CALL SET UP 05.2                             | [MT Call Set Up With CLI]                 |
| 9    | ME -> SIM | ENVELOPE: EVENT<br>DOWNLOAD – MT Call 05.2   |                                           |
| 10   | SS -> ME  | CALL DISCONNECT 05.1                         |                                           |
| 11   | SS -> ME  | CALL SET UP 05.3                             | [MT Call Set Up With Withheld CLI]        |
| 12   | ME -> SIM | ENVELOPE: EVENT<br>DOWNLOAD – MT Call 05.3   |                                           |
| 13   | SS -> ME  | CALL DISCONNECT 05.1                         |                                           |
| 14   | SS -> ME  | CALL SET UP 05.4                             | [MT Call Set Up with CLI and sub-address] |
| 15   | ME -> SIM | ENVELOPE: EVENT<br>DOWNLOAD – MT Call 05.4   |                                           |
| 16   | SS -> ME  | CALL DISCONNECT 05.1                         |                                           |

27.22.87.1.1.5 Test Requirement

The behaviour of the test is as defined in ‘Expected Sequence 1’.

## 27.22.87.2 Call Connected Event

27.22.87.2.1 Call Connected Event (MT and MO call)

27.22.87.2.1.1 Definition and applicability

This test is only applicable to ME’s that support the EVENT: Call Connected event driven information.

27.22.87.2.1.2 Conformance requirement

The ME shall support the EVENT: Call Connected event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.16, 6.8 (Terminal Response), 11, 11.2, 12.25

## 27.22.87.2.1.3 Test Purpose

To verify that the ME informs the SIM the an Event: Call Connected has occurred using the ENVELOPE (EVENT DOWNLOAD –Call Connected) command.

## 27.22.87.2.1.4 Method of test

## 27.22.87.2.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator and the System Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

## 27.22.87.2.1.4.2 Procedure

## Expected Sequence 1

| Step | Direction     | Message / Action                                      | Behaviour                      |
|------|---------------|-------------------------------------------------------|--------------------------------|
| 1    | SIM -> ME     | PROACTIVE COMMAND<br>PENDING                          |                                |
| 2    | ME -> SIM     | FETCH                                                 |                                |
| 3    | SIM -> ME     | PROACTIVE COMMAND: SET<br>UP EVENT LIST 05.2          | [EVENT: Call Connected active] |
| 4    | ME -> SIM     | TERMINAL RESPONSE: SET UP<br>EVENT LIST 05.2          |                                |
| 5    | SS -> ME      | CALL SET UP 05.2                                      | [MT Call]                      |
| 6    | USER -><br>ME | Accept Call Set Up                                    |                                |
| 7    | ME -> SIM     | ENVELOPE: EVENT<br>DOWNLOAD - Call Connected<br>05.x1 |                                |
| 8    | SS -> ME      | CALL DISCONNECT 05.1                                  |                                |
| 9    | USER -><br>ME | Initiate Call to "123"                                |                                |
| 10   | ME -> SS      | CALL SET UP REQUEST 05.x2                             | [MO Call]                      |
| 11   | SS -> ME      | CONNECT 05.x1                                         |                                |
| 12   | ME -> SIM     | ENVELOPE: EVENT<br>DOWNLOAD – Call Connected<br>05.x1 |                                |
| 13   | USER -><br>ME | End Call                                              |                                |
| 14   | ME -> SS      | REQUEST DISCONNECT 05.1                               |                                |
| 15   | SS -> ME      | CALL DISCONNECT 05.1                                  |                                |

## 27.22.87.2.1.5 Test Requirement

The behaviour of the test is as defined in 'Expected Sequence 1'.

## 27.22.87.2.2 Call Connected Event (ME supporting SET UP CALL)

## 27.22.87.2.2.1 Definition and applicability

This test is only applicable to ME's that support the EVENT: Call Connected event driven information and the SET UP CALL Proactive SIM Command.

## 27.22.87.2.2.2 Conformance requirement

~~The ME shall support the EVENT: Call Connected event as defined in the following technical specifications:~~

TS GSM 11.14 [15] clause [11.2.2](#), [6.4.13](#), [6.6.12](#)...

Additionally the ME shall support the SET UP CALL Proactive SIM Command as defined in the following technical specifications:

~~TS GSM 11.14 [15] clause ...~~

### 27.22.87.2.2.3 Test Purpose

To verify that the ME informs the SIM the an Event: Call Connected has occurred using the ENVELOPE (EVENT DOWNLOAD –Call Connected) command.

### 27.22.87.2.2.4 Method of test

#### 27.22.87.2.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator and the System Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

#### 27.22.87.2.2.4.2 Procedure

#### Expected Sequence 1

| Step | Direction     | Message / Action                             | Behaviour                      |
|------|---------------|----------------------------------------------|--------------------------------|
| 1    | SIM -> ME     | PROACTIVE COMMAND<br>PENDING                 |                                |
| 2    | ME -> SIM     | FETCH                                        |                                |
| 3    | SIM -> ME     | PROACTIVE COMMAND: SET<br>UP EVENT LIST 05.2 | [EVENT: Call Connected active] |
| 4    | ME -> SIM     | TERMINAL RESPONSE: SET UP<br>EVENT LIST 05.2 |                                |
| 5    | SIM -> ME     | PROACTIVE COMMAND<br>PENDING                 |                                |
| 6    | ME -> SIM     | FETCH                                        |                                |
| 7    | SIM -> ME     | PROACTIVE COMMAND: SET<br>UP CALL x.1        | [SAT Call]                     |
| 8    | ME            |                                              | ME BEHAVIOUR: SET UP CALL x.2  |
| 9    | USER -><br>ME | Confirm call set up                          |                                |
| 10   | ME -> SS      | SET UP CALL REQUEST x.1                      |                                |
| 11   | SS -> ME      | CONNECT x.1                                  |                                |
| 12   | ME -> SIM     | TERMINAL RESPONSE: SET UP<br>CALL x.1        |                                |
| 13   | ME -> SIM     | ENVELOPE: CALL CONNECTED<br>x.1              |                                |

### 27.22.87.2.2.5 Test Requirement

The behaviour of the test is as defined in ‘Expected Sequence 1’.

## 27.22.87.3 Call Disconnected Event

### 27.22.87.3.1 Call Disconnected Event

#### 27.22.87.3.1.1 Definition and applicability

This test is only applicable to ME’s that support the EVENT: Call Disconnected event driven information.

#### 27.22.87.3.1.2 Conformance requirement

The ME shall support the EVENT: Call Disconnected event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.16, 6.8 (Terminal Response), 11, 11.3, 12.25

#### 27.22.87.3.1.3 Test Purpose

To verify that the ME informs the SIM the an Event: Call Disconnected has occurred using the ENVELOPE (EVENT DOWNLOAD –Call Disconnected) command.

#### 27.22.87.3.1.4 Method of test

##### 27.22.87.3.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator and the System Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

## 27.22.87.3.1.4.2 Procedure

## Expected Sequence 1

| Step | Direction     | Message / Action                             | Behaviour                         |
|------|---------------|----------------------------------------------|-----------------------------------|
| 1    | SIM -> ME     | PROACTIVE COMMAND<br>PENDING                 |                                   |
| 2    | ME -> SIM     | FETCH                                        |                                   |
| 3    | SIM -> ME     | PROACTIVE COMMAND: SET<br>UP EVENT LIST 05.3 | [EVENT: Call Disconnected active] |
| 4    | ME -> SIM     | TERMINAL RESPONSE: SET UP<br>EVENT LIST 05.3 |                                   |
| 5    | SS -> ME      | SETUP 05.1                                   |                                   |
| 6    | USER -><br>ME | Accept Call Set Up                           |                                   |
| 7    | SS -> ME      | DISCONNECT 05.1                              | [MT DISCONNECT]                   |
| 8    | ME-> SIM      | ENVELOPE: CALL<br>DISCONNECTED 05.1          |                                   |
| 9    | SS -> ME      | SETUP 05.1                                   |                                   |
| 10   | USER -><br>ME | Accept Call Set Up                           |                                   |
| 11   | SS -> ME      | RELEASE 05.1                                 | [MT RELEASE]                      |
| 12   | ME-> SIM      | ENVELOPE: CALL<br>DISCONNECTED 05.1          |                                   |
| 13   | SS -> ME      | SETUP 05.1                                   |                                   |
| 14   | USER -><br>ME | Accept Call Set Up                           |                                   |
| 15   | SS -> ME      | RELEASE COMPLETE 05.1                        | [MT RELEASE COMPLETE]             |
| 16   | ME-> SIM      | ENVELOPE: CALL<br>DISCONNECTED 05.1          |                                   |
| 17   | SS -> ME      | SETUP 05.1                                   |                                   |
| 18   | USER -><br>ME | Accept Call Set Up                           |                                   |
| 19   | USER -><br>ME | End Call                                     |                                   |
| 20   | ME -> SS      | DISCONNECT 05.x1                             | [MO DISCONNECT]                   |
| 21   | ME -> SIM     | ENVELOPE: CALL<br>DISCONNECTED 05.1          |                                   |
| 22   | SS -> ME      | DISCONNECT ACK ???                           |                                   |
| 23   | SS -> ME      | SETUP 05.1                                   |                                   |
| 24   | USER -><br>ME | Accept Call Set Up                           |                                   |
| 25   | SS -> ME      | DISCONNECT 05.x2                             | [MT DISCONNECT + CAUSE]           |
| 26   | ME-> SIM      | ENVELOPE: CALL<br>DISCONNECTED 05.x5         |                                   |
| 27   | SS -> ME      | SETUP 05.1                                   |                                   |
| 28   | USER -><br>ME | Accept Call Set Up                           |                                   |
| 29   | SS            | TX POWER to XX                               | [RADIO LINK FAILURE]              |
| 30   | ME-> SIM      | ENVELOPE: CALL<br>DISCONNECTED 05.x6         |                                   |

## 27.22.87.3.1.5 Test Requirement

The behaviour of the test is as defined in 'Expected Sequence 1'.

## 27.22.87.4 Location Status Event

### 27.22.87.4.1 Location Status Event (normal)

#### 27.22.87.4.1.1 Definition and applicability

This test is only applicable to ME's that support the EVENT: Location Status

#### 27.22.87.4.1.2 Conformance requirement

The ME shall support the EVENT: Location Status event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 11.4, 6.4.16

#### 27.22.87.4.1.3 Test Purpose

To verify that the ME informs the SIM that an Event: MM\_IDLE state has occurred using the ENVELOPE (EVENT DOWNLOAD – Location Status) command.

#### 27.22.87.4.1.4 Method of test

##### 27.22.87.4.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator and the System Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

##### 27.22.87.4.4.2 Procedure

Expected Sequence 1

| Step | Direction | Message / Action                                      | Behaviour                                                                                                                |
|------|-----------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1    | SIM -> ME | PROACTIVE COMMAND<br>PENDING                          |                                                                                                                          |
| 2    | ME -> SIM | FETCH                                                 |                                                                                                                          |
| 3    | SIM -> ME | PROACTIVE COMMAND: SET<br>UP EVENT LIST x.xx          |                                                                                                                          |
| 4    | ME -> SIM | TERMINAL RESPONSE: SET UP<br>EVENT LIST x.xx          |                                                                                                                          |
| 5    | ...       | No action                                             | [ME enters MM_IDLE state with the result<br>that either the location status or location<br>information has been changed] |
| 6    | ME -> SIM | ENVELOPE: EVENT<br>DOWNLOAD – Location Status<br>x.xx | [NOTE : The inclusion of the location<br>information is optional : (If location status<br>indicates normal status)]      |

#### 27.22.87.4.1.5 Test Requirement

The behaviour of the test is as defined in 'Expected Sequence 1'.

## 27.22.87.5 User Activity Event

### 27.22.87.5.1 User Activity Event (normal)

#### 27.22.87.5.1.1 Definition and applicability

This test is only applicable to ME's that support the EVENT DOWNLOAD -USER ACTIVITY proactive SIM facility.

#### 27.22.87.5.1.2 Conformance Requirement

The ME shall support the EVENT DOWNLOAD -USER ACTIVITY as defined in the following technical specifications:

TS GSM 11.14 [15] clause 5.2 (Terminal Profile), clause 6.4.16 (Set Up Event List), clause 6.8 (Terminal Response), clause 6.6.16, clause 6.11, clause 11 (Event Download), clause 11.5 (User Activity event), clause 12.6 (Commands details), clause 12.25 (Event List).

#### 27.22.87.5.1.3 Test Purpose

To verify that the ME performed correctly the procedure of USER ACTIVITY EVENT.

#### 27.22.87.5.1.4 Method of Test

##### 27.22.87.5.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.



27.22.87.5.1.4.2 Procedure

Expected Sequence 1 (EVENT DOWNLOAD -USER ACTIVITY)

| Step | Direction  | MESSAGE / Action                                             | Comments                                                                                                                                                                                |
|------|------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | USER -> ME | Reset                                                        | The current event list is removed if it's existing<br>Check if no envelope Event Download-User activity sending to the SIM<br>[event User Activity]<br>[command performed successfully] |
| 2    | USER       | press any key                                                |                                                                                                                                                                                         |
| 3    | SIM → ME   | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST 1.1          |                                                                                                                                                                                         |
| 4    | ME → SIM   | FETCH                                                        |                                                                                                                                                                                         |
| 5    | SIM → ME   | PROACTIVE COMMAND: SET UP EVENT LIST 1.1                     |                                                                                                                                                                                         |
| 6    | ME → SIM   | TERMINAL RESPONSE: SET UP EVENT LIST 1.1                     |                                                                                                                                                                                         |
| 7    | USER       | press any key                                                |                                                                                                                                                                                         |
| 8    | ME → SIM   | ENVELOPE EVENT<br>DOWNLOAD -USER ACTIVITY 1.1                |                                                                                                                                                                                         |
| 9    | ME         | remove the event User Activity in the current list of events |                                                                                                                                                                                         |
| 10   | USER       | press any key                                                |                                                                                                                                                                                         |

**Proactive SIM Command**PROACTIVE COMMAND\_1.1: SET UP EVENT LIST 1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier:

Device identities

Source device: SIM  
 Destination device: ME

Event List User Activity

Coding:

BER-TLV:    D0   15   81   03   01   05   00   82   02   81   82   99  
                   01   04

BER-TLV:    D0   15   81   03   01   05   00   82   02   81   82   99  
                   01   04

**TERMINAL RESPONSE : SET UP EVENT LIST 1.1**

Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier:  
 Device identities  
 Source device: ME  
 Destination device: SIM  
 Result  
 General Result: Command performed successfully

Coding:

BER-TLV: 81 03 01 05 80 82 02 82 81 83 01 00

~~BER-TLV: 81 03 01 05 80 82 02 82 81 83 01 00~~

**Envelope 1.1: EVENT DOWNLOAD -USER ACTIVITY**

Logically:

Event List                      User Activity  
  
 Device identities  
 Source device: ME  
 Destination device: SIM

Coding:

BER-TLV: D6 0C 81 03 01 05 00 82 02 82 81 99  
01 04

~~BER-TLV: D6 0C 81 03 01 05 00 82 02 82 81 99 01 04~~

27.22.87.5.1.5              Test Requirement

The ME shall operate in the manner defined in expected sequence 1.

27.22.87.6    Idle screen available event

27.22.87.6.1    Idle Screen Available (normal)

27.22.87.6.1.1    Definition and applicability

This test is only applicable to ME's that support the EVENT: IDLE SCREEN AVAILABLE event driven information.

## 27.22.87.6.1.2 Conformance requirement

The ME shall support the EVENT: IDLE SCREEN AVAILABLE event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7, 5.2 (Terminal Profile), 6.4.16, 6.8 (Terminal Response), 11, 11.1, 12.25

## 27.22.87.6.1.3 Test Purpose

To verify that the ME informs the SIM the an Event: Idle Screen Available has occurred using the ENVELOPE (EVENT DOWNLOAD – IDLE SCREEN AVAILABLE) command.

## 27.22.87.6.1.4 Method of test

## 27.22.87.6.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator and the System Simulator.

The elementary files are coded as SIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The following events shall have been set up in the ME.

**Event List**

Logically:

|          |                       |
|----------|-----------------------|
| Event 1: | Idle screen available |
| Event 2: | Location status       |

## 27.22.87.6.1.4.2 Procedure

Expected Sequence 1 (IDLE SCREEN AVAILABLE, normal ending of command)

| Step | Direction    | MESSAGE / Action                               | Comments             |
|------|--------------|------------------------------------------------|----------------------|
| 1    | USER →<br>ME | Select ME idle screen                          |                      |
| 2    | ME → SIM     | ENVELOPE: IDLE SCREEN<br>AVAILABLE 1.1A        |                      |
| 3    | SIM → ME     | PROACTIVE SIM SESSION<br>ENDED                 |                      |
| 4    | USER →<br>ME | Select screen other than the ME<br>idle screen |                      |
| 5    | USER →<br>ME | Select ME idle screen                          |                      |
| 6    | ---ME        |                                                | No terminal response |

**ENVELOPE: IDLE SCREEN AVAILABLE 1.1A**

Logically:

|                     |                       |
|---------------------|-----------------------|
| Event list          |                       |
| Event 1:            | IDLE SCREEN AVAILABLE |
| Device identities   |                       |
| Source device:      | ME                    |
| Destination device: | SIM                   |

## 27.22.87.6.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequence 1.

## ~~27.22.8.7 Card Reader Status Event~~

### ~~27.22.8.7.1 Call Card Reader Status (normal)~~

#### ~~27.22.8.7.1.1 Definition and applicability~~

~~This test is only applicable to ME's that support the EVENT: Card Reader Status event driven information. It must also support the attachment of an additional card reader.~~

#### ~~27.22.8.7.1.2 Conformance requirement~~

~~The ME shall support the EVENT: Call Card Reader Status event as defined in the following technical specifications:~~

~~TS GSM 11.14 [15] clause 4.7, 4.9, 5.2 (Terminal Profile), 6.4.16, 6.8 (Terminal Response), 11, 11.7, 12.25, 12.33, ANNEX G.~~

#### ~~27.22.8.7.1.3 Test Purpose~~

~~To verify that the ME informs the SIM the an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD—Card Reader Status) command.~~

#### ~~27.22.8.7.1.4 Method of test~~

##### ~~27.22.8.7.1.4.1 Initial Conditions~~

~~The ME is connected to the SIM Simulator and the System Simulator.~~

~~The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.~~

~~27.22.8.7.1.4.2 Procedure~~~~Expected Sequence 1~~

| Step | Direction | Message / Action                             | Behaviour                           |
|------|-----------|----------------------------------------------|-------------------------------------|
| 1    | SIM->ME   | PROACTIVE COMMAND<br>PENDING                 |                                     |
| 2    | ME->SIM   | FETCH                                        |                                     |
| 3    | SIM->ME   | PROACTIVE COMMAND: SET<br>UP EVENT LIST 05.5 | [EVENT: Card Reader Status changed] |
| 4    | ME->SIM   | TERMINAL RESPONSE: SET UP<br>EVENT LIST 05.5 |                                     |
| 5    | User->ME  | Attach a Card Reader to ME                   |                                     |
| 6    | ME->SIM   | ENVELOPE: CARD READER<br>STATUS 05.4         |                                     |
| 7    | User->ME  | Insert a card in Reader                      |                                     |
| 8    | ME->SIM   | ENVELOPE: CARD READER<br>STATUS 05.2         |                                     |
| 9    | User->ME  | Remove the card from Reader                  |                                     |
| 10   | ME->SIM   | ENVELOPE: CARD READER<br>STATUS 05.4         |                                     |
| 11   | User->ME  | Detach the Card Reader from ME               |                                     |
| 12   | ME->SIM   | ENVELOPE: CARD READER<br>STATUS 05.3         |                                     |

~~27.22.8.7.1.5 Test Requirement~~

The behaviour of the test is as defined in 'Expected Sequence 1'.

~~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.~~87~~.7 Card reader status event27.22.~~87~~.7.1 Call Card Reader Status (normal)27.22.~~87~~.7.1.1 Definition and applicability

This test is only applicable to ME's that support the EVENT: Card Reader Status event driven information.

#### 27.22.87.7.1.2 Conformance requirement

The ME shall support the EVENT: Call Card Reader Status event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7 (Event Download), clause 4.9 (Multiple Card), clause 5.2 (Terminal Profile), clause 6.4.16 (Set Up Event List), clause 6.8 (Terminal Response), clause 11 (Event download), clause 11.7 (Card reader status event), clause 12.25 (Event List), clause 12.33 (Card reader status), ANNEX G (Monitoring of events), Annex H (Support of MultipleCard Operation), clause 12.25 (Event list), clause 12.7 (Device identities).

#### 27.22.87.7.1.3 Test Purpose

To verify that the ME informs the SIM the an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD – Card Reader Status) command.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

#### 27.22.87.7.1.4 Method of test

##### 27.22.87.7.1.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.87.7.1.4.2 Procedure

Expected Sequence 1.1 (Card reader 1, card reader attached, no card inserted)

| Step | Direction | Message / Action                                                                                                                                                                       | Behaviour                   |
|------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1    | SIM -> ME | PROACTIVE COMMAND 1.1.1<br>PENDING                                                                                                                                                     |                             |
| 2    | ME -> SIM | FETCH                                                                                                                                                                                  |                             |
| 3    | SIM -> ME | PROACTIVE COMMAND: SET<br>UP EVENT LIST 1.1.1                                                                                                                                          | [EVENT: Card Reader Status] |
| 4    | ME -> SIM | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1                                                                                                                                          | [Successfully]              |
| 5    | User->ME  | Insert a card in Reader                                                                                                                                                                |                             |
| 6    | ME-> SIM  | ENVELOPE: CARD READER<br>STATUS 1.1.1a<br>or<br>ENVELOPE: CARD READER<br>STATUS 1.1.1b<br>Or<br>ENVELOPE: CARD READER<br>STATUS 1.1.1c<br>Or<br>ENVELOPE: CARD READER<br>STATUS 1.1.1d |                             |
| 7    | User->ME  | Remove the card from Reader                                                                                                                                                            |                             |
| 8    | ME-> SIM  | ENVELOPE: CARD READER<br>STATUS 1.1.2a<br>Or<br>ENVELOPE: CARD READER<br>STATUS 1.1.2b<br>Or<br>ENVELOPE: CARD READER<br>STATUS 1.1.2c<br>Or<br>ENVELOPE: CARD READER<br>STATUS 1.1.2d |                             |

**PROACTIVE COMMAND : SET UP EVENT LIST 1.1.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: SIM  
 Destination device: ME

Event list

Event 1: Card Reader Status

Coding:

BER-TLV: D0 0D 81 03 01 05 00 82 02 81 82  
 99 01 06

**TERMINAL RESPONSE : SET UP EVENT LIST 1.1.1**

Logically:

|                     |                                |
|---------------------|--------------------------------|
| Command details     |                                |
| Command number:     | 1                              |
| Command type:       | SET UP EVENT LIST              |
| Command qualifier:  | '00'                           |
| Device identities   |                                |
| Source device:      | ME                             |
| Destination device: | SIM                            |
| Result              |                                |
| General Result:     | Command performed successfully |

Coding:

BER-TLV: 81 03 01 05 00 82 02 82 81 83 01 00

**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1a**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | Yes                |
| Card reader present:     | Yes                |
| Card reader ID-1 size:   | Yes                |
| Card present in reader:  | Yes                |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 97

**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1b**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | Yes                |
| Card reader present:     | Yes                |
| Card reader ID-1 size:   | No                 |
| Card present in reader:  | Yes                |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 95



**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1c**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | No                 |
| Card reader present:     | Yes                |
| Card reader ID-1 size:   | Yes                |
| Card present in reader:  | Yes                |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 17

**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1d**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | No                 |
| Card reader present:     | Yes                |
| Card reader ID-1 size:   | No                 |
| Card present in reader:  | Yes                |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 15

**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2a**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | Yes                |
| Card reader present:     | Yes                |
| Card reader ID-1 size:   | Yes                |
| Card present in reader:  | No                 |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 93

**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2b**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | Yes                |
| Card reader present:     | Yes                |
| Card reader ID-1 size:   | No                 |
| Card present in reader:  | No                 |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 91

**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2c**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | No                 |
| Card reader present:     | Yes                |
| Card reader ID-1 size:   | Yes                |
| Card present in reader:  | No                 |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 13

**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.2d**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | No                 |
| Card reader present:     | Yes                |
| Card reader ID-1 size:   | No                 |
| Card present in reader:  | No                 |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 91

**27.22.87.7.1.5 Test Requirement**

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

**27.22.87.7.2 Call Card Reader Status (detachable card reader)****27.22.87.7.2.1 Definition and applicability**

This test is only applicable to ME's that support the EVENT: Card Reader Status event driven information. It must also support the attachment of an additional card reader.

**27.22.87.7.2.2 Conformance requirement**

The ME shall support the EVENT: Call Card Reader Status event as defined in the following technical specifications:

TS GSM 11.14 [15] clause 4.7 (Event Download), clause 4.9 (Multiple Card), clause 5.2 (Terminal Profile), clause 6.4.16 (Set Up Event List), clause 6.8 (Terminal Response), clause 11 (Event download), clause 11.7 (Card reader status event), clause 12.25 (Event List), clause 12.33 (Card reader status), ANNEX G (Monitoring of events), Annex H (Support of MultipleCard Operation), clause 12.25 (Event list), clause 12.7 (Device identities).

**27.22.87.7.2.3 Test Purpose**

To verify that the ME informs the SIM the an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD – Card Reader Status) command.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

27.22.87.7.2.4 Method of test

27.22.87.7.2.4.1 Initial Conditions

The ME is connected to the SIM Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.87.7.2.4.2 Procedure

Expected Sequence 2.1 (Card reader 1, detachable card reader not attached, no card inserted)

| Step | Direction | Message / Action                                                                       | Behaviour                          |
|------|-----------|----------------------------------------------------------------------------------------|------------------------------------|
| 1    | SIM -> ME | PROACTIVE COMMAND<br>1.1.1PENDING                                                      |                                    |
| 2    | ME -> SIM | FETCH                                                                                  |                                    |
| 3    | SIM -> ME | PROACTIVE COMMAND: SET<br>UP EVENT LIST 1.1.1                                          | [SET UP EVENT: Card Reader Status] |
| 4    | ME -> SIM | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1                                          | [Successfully]                     |
| 5    | User->ME  | Attach the Card Reader to ME                                                           |                                    |
| 6    | ME-> SIM  | ENVELOPE: CARD READER<br>STATUS 2.1.1a<br>Or<br>ENVELOPE: CARD READER<br>STATUS 2.1.1b |                                    |
| 7    | User->ME  | Detach the Card Reader from ME                                                         |                                    |
| 8    | ME-> SIM  | ENVELOPE: CARD READER<br>STATUS 2.1.2a<br>Or<br>ENVELOPE: CARD READER<br>STATUS 2.1.2b |                                    |

### ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 1.1.1a

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | Yes                |
| Card reader present:     | Yes                |
| Card reader ID-1 size:   | Yes                |
| Card present in reader:  | No                 |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 93

**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.1b**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | Yes                |
| Card reader present:     | Yes                |
| Card reader ID-1 size:   | No                 |
| Card present in reader:  | No                 |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 91

**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.2a**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | Yes                |
| Card reader present:     | No                 |
| Card reader ID-1 size:   | Yes                |
| Card present in reader:  | No                 |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 92

**ENVELOPE: EVENT DOWNLOAD CARD READER STATUS 2.1.2b**

Logically:

|                          |                    |
|--------------------------|--------------------|
| Event list               |                    |
| Event 1:                 | Card Reader Status |
| Device identities        |                    |
| Source device:           | ME                 |
| Destination device:      | SIM                |
| Card reader status       |                    |
| Identity of card reader: | 01                 |
| Card reader removable:   | Yes                |
| Card reader present:     | No                 |
| Card reader ID-1 size:   | No                 |
| Card present in reader:  | No                 |
| Card powered:            | No                 |

Coding:

BER-TLV: D6 0A 99 01 06 82 02 82 81 A0 01 90

27.22.87.7.1.5 Test Requirement

The behaviour of the test is as defined in 'Expected Sequence 2.1'.

27.22.87.8 Language selection event

27.22.87.9 Browser termination event

27.22.87.10 Data available event

27.22.87.11 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<sub>img</sub> (4F20, linear fixed file) and EF<sub>Instance</sub> (4FXX, transparent file).

### EF<sub>img</sub> (Image, 4F20)

#### Record 1:

Logically:

Number of Actual Images Instances: 01  
 Image Instance Width: 2E  
 Image Instance Height: 28  
 Image Coding Scheme: 11 (basic image)  
 Image Instance File Identifier: 4F 01 (EF<sub>Instance</sub>)  
 Offset into Image Instance File: 00 00  
 Length of Image Instance Data: 00 E8

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 01 | 2E | 28 | 11 | 4F | 01 | 00 | 00 | 00 | E8 | FF | FF |
|          | FF | FF | FF | FF | FF | FF | FF | FF |    |    |    |    |

#### Record 2:

Logically:

Number of Actual Images Instances: 01  
 Image Instance Width: 08  
 Image Instance Height: 08  
 Image Coding Scheme: 21 (colour image)  
 Image Instance File Identifier: 4F 02(EF<sub>Instance</sub>)  
 Offset into Image Instance File: 00 00  
 Length of Image Instance Data: 00 1F

Coding:

```

BER-TLV:  01  2E  28  21  4F  02  00  00  00  1F  FF  FF
          FF  FF  FF  FF  FF  FF  FF  FF  FF  FF  FF  FF

```

**Record 3:**

Logically:

```

Number of Actual Images Instances:  01
Image Instance Width:                18
Image Instance Height:               10
Image Coding Scheme:                 11 (basic image)
Image Instance File Identifier:       4F 03 (EFInstance)
Offset into Image Instance File:     00 00
Length of Image Instance Data:       00 32

```

Coding:

```

BER-TLV:  01  18  10  11  4F  03  00  00  00  32  FF  FF
          FF  FF  FF  FF  FF  FF  FF  FF  FF  FF  FF  FF

```

**Record 4:**

Logically:

```

Number of Actual Images Instances:  01
Image Instance Width:                08
Image Instance Height:               08
Image Coding Scheme:                 11 (basic image)
Image Instance File Identifier:       4F 04 (EFInstance)
Offset into Image Instance File:     00 00
Length of Image Instance Data:       00 0A

```

Coding:

```

BER-TLV:  01  08  08  11  4F  04  00  00  00  0A  FF  FF
          FF  FF  FF  FF  FF  FF  FF  FF  FF  FF  FF  FF

```

**Record 5:**

Logically:

Number of Actual Images Instances: 01

Image Instance Width: 05  
 Image Instance Height: 05  
 Image Coding Scheme: 11 (basic image)  
 Image Instance File Identifier: 4F 05 (EF<sub>Instance</sub>)  
 Offset into Image Instance File: 00 00  
 Length of Image Instance Data: 00 08

Coding:

|          |    |    |    |    |    |    |    |    |    |     |    |    |
|----------|----|----|----|----|----|----|----|----|----|-----|----|----|
| BER-TLV: | 01 | 05 | 05 | 11 | 4F | 05 | 00 | 00 | 00 | 086 | FF | FF |
|          | FF | FF | FF | FF | FF | FF | FF | FF |    |     |    |    |

### EF<sub>Instance</sub> (4F01)

Logically:

Image Instance Data: see below

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 2E | 28 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 01 | FF | 80 |
|          | 00 | 00 | 00 | 0F | FF | 00 | 00 | 00 | 00 | 77 | FE | 00 |
|          | 00 | 00 | 01 | BF | F8 | 00 | 00 | 00 | 06 | FF | E0 | 00 |
|          | 00 | 00 | 1A | 03 | 80 | 00 | 00 | 00 | 6B | F6 | BC | 00 |
|          | 00 | 01 | AF | D8 | 38 | 00 | 00 | 06 | BF | 60 | 20 | 00 |
|          | 00 | 1A | FD | 80 | 40 | 00 | 00 | 6B | F6 | 00 | 80 | 00 |
|          | 01 | A0 | 1F | 02 | 00 | 00 | 06 | FF | E4 | 04 | 00 | 00 |
|          | 1B | FF | 90 | 10 | 00 | 00 | 6D | EE | 40 | 40 | 00 | 01 |
|          | BF | F9 | 01 | 00 | 00 | 6F | FF | E4 | 04 | 00 | 00 | 1B |
|          | FF | 90 | 10 | 00 | 00 | 6F | FE | 40 | 40 | 00 | 01 | BF |
|          | F9 | 01 | 00 | 00 | 06 | FF | E6 | 04 | 00 | 00 | 1B | FF |
|          | 88 | 10 | 00 | 00 | 6F | FE | 20 | 40 | 00 | 01 | BF | F8 |
|          | 66 | 00 | 00 | 06 | FF | E0 | F0 | 00 | 00 | 1B | FF | 80 |
|          | 80 | 00 | 00 | 7F | FE | 00 | 00 | 00 | 03 | 00 | 0C | 00 |
|          | 00 | 00 | 1F | FF | F8 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
|          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
|          | 1C | 21 | 08 | 44 | EE | 00 | 48 | C4 | 31 | 92 | 20 | 01 |
|          | 25 | 11 | 45 | 50 | 80 | 07 | 14 | 45 | 15 | 43 | 80 | 12 |
|          | 71 | 1C | 4D | 08 | 00 | 4A | 24 | 89 | 32 | 20 | 01 | C8 |
|          | 9E | 24 | 4E | E0 |    |    |    |    |    |    |    |    |

### EF<sub>Instance</sub> (4F02)

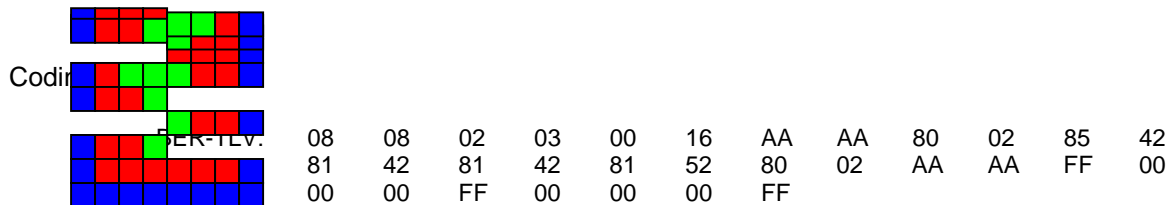
Logically:

Image Instance Data:

Image width: 08  
 Image length: 08  
 Bits per raster image point: 02  
 Number of CLUT entries: 03

Location of CLUT: 00 16

Image body: see below



**EF<sub>Instance</sub> (4F03)**

Logically:

Image Instance Data: see below

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 18 | 10 | FF | FF | FF | 80 | 00 | 01 | 80 | 00 | 01 | 80 |
|          | 00 | 01 | 8F | 3C | F1 | 89 | 20 | 81 | 89 | 20 | 81 | 89 |
|          | 20 | F1 | 89 | 20 | 11 | 89 | 20 | 11 | 89 | 20 | 11 | 8F |
|          | 3C | F1 | 80 | 00 | 01 | 80 | 00 | 01 | 80 | 00 | 01 | FF |
|          | FF | FF |    |    |    |    |    |    |    |    |    |    |

**EF<sub>Instance</sub> (4F04)**

Logically:

Image Instance Data: see below

Coding:

|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 08 | 08 | FF | 03 | A5 | 99 | 99 | A5 | C3 | FF |
|----------|----|----|----|----|----|----|----|----|----|----|

**EF<sub>Instance</sub> (4F05)**

Logically:

Image Instance Data: see below

Coding:

|          |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|
| BER-TLV: | 05 | 05 | FE | EB | BF | FF | FF | FF |
|----------|----|----|----|----|----|----|----|----|

**Annex 'D' (normative):  
Details of Test-SIM (TestSIM)**

The TestSIM shall be able to present the following data:

## 1. ANSWER TO RESET

Logically:

|                         |                                                                                  |
|-------------------------|----------------------------------------------------------------------------------|
| TS (Initial character): | '3B'                                                                             |
| T0 (Format character):  | '86' (Following interface characters: TD(1), number of historical characters: 6) |
| TD1:                    | '00' (Following interface characters: none, Transfer protocol: T=0)              |
| T1:                     | 91                                                                               |
| T2:                     | 99                                                                               |
| T3:                     | 00                                                                               |
| T4:                     | 12                                                                               |
| T5:                     | C1                                                                               |
| T6:                     | 00                                                                               |

Coding:

BER-TLV: 3B 86 00 91 99 00 12 C1 00

2. For a successful outcome of the command „Select MasterFile“ the TestSIM shall send SW1/SW2 „9F 1B“
3. For a successful outcome of the command „Get Response with Length 1B“ on the MasterFile the TestSIM shall respond:

RFU: '00 00'  
 Not allocated memory: '653 bytes'  
 File ID: Master File  
 Type of file: MF  
 RFU: 00 00 22 FF 01'  
 Length of following data: 14 bytes'  
 File characteristics:  
   Clock Stop: Not allowed  
   Min. frequency for GSM algorithm: 13/8 MHz  
   Technology identification: 3V Technology SIM  
   CHV1: disabled  
 DFs in current directory: 2  
 EFs in current directory: 8  
 Number of CHV and admin. Codes: 3  
 RFU byte 18: 00  
 CHV1 status:  
   False representations remaining: 3  
   RFU-bits 7-5: 000  
   Secret code: Initialised  
 Unlock CHV1 status:  
   False representations remaining: 10  
   RFU-bits 7-5: 000  
   Secret code: Initialised  
 CHV2 status:  
   False representations remaining: 3  
   RFU-bits 7-5: 000  
   Secret code: Initialised  
 Unlock CHV2 status:  
   False representations remaining: 10  
   RFU-bits 7-5: 000  
   Secret code: Initialised  
 RFU bytes 23: 00  
 Reserved for admin. management: 00 83 00 FF  
 Status Words  
   SW1 / SW2: Normal ending of command

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 00 | 00 | 02 | 8D | 3F | 00 | 01 | 00 | 00 | 22 | FF | 01 |
|          | 0E | 9B | 02 | 08 | 03 | 00 | 83 | 8A | 83 | 8A | 00 | 00 |
|          | 83 | 00 | FF | 90 | 00 |    |    |    |    |    |    |    |

4. For a successful outcome of the command „Select GSM“ the TestSIM shall send SW1/SW2 „9F 1B“
5. For a successful outcome of the command „Select PLMN“ the TestSIM shall send SW1/SW2 „9F 0F“
6. EF<sub>PLMN</sub> Information:

RFU-Bytes 1-2: 00 00  
 File size: 102 bytes  
 File ID: 6F30  
 Type of File: Elementary file



Byte 8

RFU: 00

Access Condition:

UPDATE: CHV1

READ/SEEK: CHV1

RFU-bits 4-1: 1111

INCREASE: NEVER

INVALIDATE: NEVER

REHABILITATE: NEVER

File Status:

Invalidation status: File not invalidated

Readable/updateable: Not readable/updaable when invalidated

RFU-bits 8-4, 2: 0000 0

Length of following data: 2 bytes

Structure: Transparent

Length of record: 00

The initial coding of the EF<sub>PLMN</sub> shall be FF FF ... FF (logically: Empty).

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## Annex E (informative): Change History

| SPEC    | CR   | RE | PHA | VERS  | SUBJECT                                                                  | CAT | NEW_VERS |
|---------|------|----|-----|-------|--------------------------------------------------------------------------|-----|----------|
| 11.10-4 | -    | 96 | 2+  | -     | Approved as release 1996 at SMG#30                                       | -   | 5.0.0    |
| 11.10-4 | A001 | 96 | 2+  | 5.0.0 | Corrections to SIM Application Toolkit Test Specification                | F   | 5.1.0    |
| 11.10-4 |      |    |     | 5.1.0 | Version update to 5.1.1 for Publication                                  |     | 5.1.1    |
| 11.10-4 | A002 | 96 | 2+  | 5.1.0 | Editorial and coding corrections                                         | F   | 5.2.0    |
| 11.10-4 | A003 | 96 | 2+  | 5.2.0 | Correction of wrong coding for SIM Application Toolkit test<br>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<br>Download)            | F   | 5.3.0    |
| Ab.cde  |      | 99 | 2+  | 0.0.0 | New document based on Rel 99 with test scenarios<br>redesigned           |     | 0.0.1    |

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