3GPP TSG-T plenary meeting #22
Maui, US, 10-12 December 2003

Tdoc TP-030246

Source: T3

Title: CRs to TS 11.10-4:

Mobile Station (MS) conformance specification;
Part 4: SIM Application Toolkit conformance specification

Document for: Approval

This document contains the following change requests:

Spec	CR	Rev	Phase	Subject	Cat	new ver.	Doc-2nd-Level
11.10-4	A055	-	R99	Introduction of “MO Short Message Control by SIM” envelope testing	B	8.6.0	T3-031007
11.10-4	A056	-	R99	Re-Introduction of changes already approved at the last T3.	F	8.6.0	T3-031008
11.10-4	A057	-	R99	CR 11.10-4 R99: Essential corrections	F	8.6.0	T3-031009
11.10-4	A058	-	R99	CR 11-10.4 R99: Essential corrections to 27.22.4.14 “POLLING OFF”	F	8.6.0	T3-031010
11.10-4	A059	-	R99	CR 11.10-4 R99: Essential corrections to Send DTMF test cases	F	8.6.0	T3-031011
11.10-4	A060	-	R99	Introduction of BIP testing in GPRS	F	8.6.0	T3-031039

3GPP TSG-T3 Meeting #29
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Tdoc ⌘T3-031007

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A055** ⌘**rev** **-** ⌘ Current version: **8.5.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Introduction of "MO Short Message Control by SIM" envelope testing
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	18/11/03
Category:	⌘	**B**
Release:	⌘	R99

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	"The MO Short Message Control by SIM" envelope is not tested. Introduction of new section 27.22.8 : MO Short Message Control by SIM: - Allowed, no modification - Not allowed - Allowed, with modifications with a user SM and with a proactive command Update of the Table B.1: "Applicability of tests" accordingly
Summary of change:	⌘	.
Consequences if not approved:	⌘	Command not tested

Clauses affected:	⌘	3.4, 27.22.8 (new clause introduced)

Other specs affected:	⌘	Y	N		⌘
				Other core specifications	
				Test specifications	
				O&M Specifications	

Other comments:	⌘	

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

3.4 Applicability table

Table B.1: Applicability of tests

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
1	**PROFILE DOWNLOAD 27.22.1**	**R96**	**1**	**M**	**M**	**M**	**M**	E.1/1	
2	**Contents of the TERMINAL PROFILE command 27.22.2**	R96		M	M	M	M	E.1/1	
3	**Servicing of Proactive SIM Commands 27.22.3**	R96		M	M	M	M		
4	**DISPLAY TEXT 27.22.4.1**								
	Unpacked	R96	1.1	M	M	M	M	E.1/17	
	Screen busy	R96	1.2	M	M	M	M	E.1/17	
	high priority	R96	1.3	M	M	M	M	E.1/17	
	Packed	R96	1.4	M	M	M	M	E.1/17	
	clear after delay	R96	1.5	M	M	M	M	E.1/17	
	clear after user confirmation	R96	1.1	M	M	M	M	E.1/17	
	long text up to 160 bytes	R96	1.6	M	M	M	M	E.1/17	
	Backwards move in SIM session	R96	1.7	M	M	M	M	E.1/17	
	Session terminated by user	R96	1.8	M	M	M	M	E.1/17	
	Command not understood by ME	R96	1.9	M	M	M	M	E.1/17	
	no response from user	R96	2.1	M	M	M	M	E.1/17	
	Extension Text	R98	3.1			C106	C106	**E.1/17 AND E.1/16**	
	sustained text	R98	4.1, 4.2, 4.3, 4.4			C104	C104	E.1/17 AND E.1/65	
	Icons	R98	5.1, 5.2, 5.3			C108	C108	E.1/17	
	UCS2 display	R97	6.1		C118	C118	C118	E.1/17 AND E.1/15	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
5	**GET INKEY 27.22.4.2**								
	prompt unpacked	R96	1.1	M	M	M	M	E.1/18	
	prompt packed	R96	1.2	M	M	M	M	E.1/18	
	digits only	R96	1.1	M	M	M	M	E.1/18	
	Backwards move in SIM session	R96	1.3	M	M	M	M	E.1/18	
	Session terminated by user	R96	1.4	M	M	M	M	E.1/18	
	SMS alphabet	R96	1.5	M	M	M	M	E.1/18	
	Long text up to 160 bytes	R96	1.6	M	M	M	M	E.1/18	
	no response from user	R96	2.1	M	M	M	M	E.1/18	
	UCS2 display	R97	3.1		C118	C118	C118	E.1/18 AND E.1/15	
	UCS2 display, Long text up to 70 chars	R97	3.2		C118	C118	C118	E.1/18 AND E.1/15	
	UCS2 format of entry	R97	4.1		C105	C105	C105	E.1/18 AND E.1/14	
	"Yes/No" response	R98	5.1			M	M	E.1/18 AND E.1/60	
	Icons	R98	6.1, 6.2, 6.3, 6.4			C108	C108	E.1/18	
	Help information	R97	7.1		C107	C107	C107	E.1/18	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
6	**GET INPUT 27.22.4.3**								
	input unpacked	R96	1.1	M	M	M	M	E.1/19	
	input packed	R96	1.2	M	M	M	M	E.1/19	
	digits only	R96	1.1	M	M	M	M	E.1/19	
	SMS alphabet	R96	1.3	M	M	M	M	E.1/19	
	hidden input	R96	1.4	M	M	M	M	E.1/19	
	min / max acceptable length	R96	1.5, 1.9	M	M	M	M	E.1/19	
	Backwards move in SIM session	R96	1.6	M	M	M	M	E.1/19	
	Session terminated by user	R96	1.7	M	M	M	M	E.1/19	
	Prompt text up to 160 bytes	R96	1.8	M	M	M	M	E.1/19	
	SMS default alphabet, ME to echo text, packing not required	R96	1.9	M	M	M	M	E.1/19	
	Null length for the text string	R96	1.10	M	M	M	M	E.1/19	
	no response from user	R96	2.1	M	M	M	M	E.1/19	
	UCS2 display	R97	3.1, 3.2		C118	C118	C118	E.1/19 AND E.1/15	
	UCS2 entry	R97	4.1, 4.2		C105	C105	C105	E.1/19 AND E.1/14	
	default text for the input	R97	5.1, 5.2		M	M	M	E.1/19	
	icons	R98	6.1, 6.2, 6.3, 6.4			C108	C108	E.1/19	
	help information	R97	7.1		C107	C107	C107	E.1/19	
7	**MORE TIME 27.22.4.4**	**R96**	1.1	M	M	M	M	E.1/20	
8	**PLAY TONE 27.22.4.5**								
	play all tones	R96	1.1	M	M	M	M	E.1/21	
	display alpha	R96	1.1	M	M	M	M	E.1/21	
	user termination	R96	1.1	M	M	M	M	E.1/21	
	superimpose	R96	1.1	M	M	M	M	E.1/21	
	UCS2 display	R97	TBD					E.1/21 AND E.1/15	
	icons	R98	TBD					E.1/21	
9	**POLL INTERVAL 27.22.4.6**								
	duration	R96	1.1	M	M	M	M	E.1/22	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
10	**REFRESH 27.22.4.7**								
	SIM initialization, enabling FDN mode	R96	1.1	M	M	M	M	E.1/24	
	file change notification of FDN file	R96	1.2	M	M	M	M	E.1/24	
	SIM initialization and file change notification of PLMN	R96	1.3	M	M	M	M	E.1/24	
	SIM initialization and full file change notification, enabling FDN mode	R96	1.4	M	M	M	M	E.1/24	
	SIM reset	R96	1.5	M	M	M	M	E.1/24	
	SIM Initialization after SMS-PP data download	R96	1.6	M	M	M	M	E.1/24	
	IMSI Changing procedure	R98	2.1			M	M	E.1/24	
11	**SET UP MENU 27.22.4.8**								
	Set up, menu selection, replace and remove menu	R96	1.1	M	M	M	M	E.1/30 AND E.1/4	
	Large menu	R96	1.2	M	M	M	M	E.1/30 AND E.1/4	
	help information	R97	2.1		C107	C107	C107	E.1/30 AND E.1/4	
	next action indicator	R97	3.1		M	M	M	E.1/30	
	icons	R98	4.1, 4.2			C108	C108	E.1/30	
	soft key access	R99	5.1				C112	E.1/30 AND E.1/74	
12	**SELECT ITEM 27.22.4.9**								
	Mandatory features	R96	1.1	M	M	M	M	E.1/25	
	Large menu	R96	1.2, 1.3, 1.5,1.6	M	M	M	M	E.1/25	
	Backwards move	R96	1.4	M	M	M	M	E.1/25	
	user termination	R96	1.5	M	M	M	M	E.1/25	
	no response from user	R96	8.1	C120	C120	C120	C120	E.1/25	
	next action indicator	R97	2.1		M	M	M	E.1/25	
	default selected item	R97	3.1		M	M	M	E.1/25	
	help information	R97	4.1		C107	C107	C107		
	icons	R98	5.1, 5.2			C108	C108	E.1/25	
	Presentation style	R98	6.1, 6.2			M	M	E.1/25	
	Soft keys	R99	7.1				C112	E.1/25 AND	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
								E.1/73	
13	**SEND SMS 27.22.4.10**								
	Packing not required	R96	1.1, 1.3 1.5	M	M	M	M	E.1/26	
	Packing required	R96	1.2, 1.4	M	M	M	M	E.1/26	
	8 bit data	R96	1.1, 1.2	M	M	M	M	E.1/26	
	SMS default alphabet	R96	1.3, 1.4, 1.5	M	M	M	M	E.1/26	
	160 bytes length	R96	1.4, 1.5	M	M	M	M	E.1/26	
	Alpha identifier	R96	1.6, 1.7, 1.8	M	M	M	M	E.1/26	
	UCS2 SMS	R97	2.1		C118	C118	C118	E.1/26 AND E.1/15	
	icons	R98	3.1, 3.2			C108	C108	E.1/26	
14	**SEND SS 27.22.4.11**								
	call forward unconditional, all bearers, successful	R96	1.1	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, Return Error	R96	1.2	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, Reject	R96	1.3	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, SS request size limit	R96	1.4	M	M	M	M	E.1/27	
	interrogate CLIR status, successful, alpha identifier limits	R96	1.5	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, null data alpha identifier	R96	1.6	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, icon support	R98	2.1, 2.2, 2.3, 2.4			C108	C108	E.1/27	
	UCS2 display	R97	3.1		C118	C118	C118	E.1/27 AND E.1/15	
15	**SEND USSD 27.22.4.12**								
	7-bit data, successful	R96	1.1	M	M	M	M	E.1/28	
	8-bit data, successful	R96	1.2	M	M	M	M	E.1/28	
	UCS2 data, successful	R96	1.3	M	M	M	M	E.1/28	
	7-bit data, unsuccessful	R96	1.4	M	M	M	M	E.1/28	
	7-bit data, unsuccessful	R96	1.5	M	M	M	M	E.1/28	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
	256 octets, 7-bit data, successful, long alpha identifier	R96	1.6	M	M	M	M	E.1/28	
	7-bit data, successful, no alpha identifier	R96	1.7	M	M	M	M	E.1/28	
	7-bit data, successful, null length alpha identifier	R96	1.8	M	M	M	M	E.1/28	
	icons	R98	2.1, 2.2, 2.3, 2.4			C108	C108	E.1/28	
	UCS2	R97	3.1		C118	C118	C118	E.1/28 AND E.1/15	
16	**SET UP CALL 27.22.4.13**								
	Call confirmed by the user and connected	R96	1.1	M	M	M	M	E.1/29	
	call rejected by the user	R96	1.2	M	M	M	M	E.1/29	
	redial	R96	1.3	C119	C119	C119	C119	E.1/29	
	putting all other calls on hold, ME busy	R96	1.4	M	M	M	M	E.1/29	
	disconnecting all other calls, ME busy	R96	1.5	M	M	M	M	E.1/29	
	only if not currently busy on another call, ME busy	R96	1.6	M	M	M	M	E.1/29	
	putting all other calls on hold, call hold is not allowed	R96	1.7	M	M	M	M	E.1/29	
	Capability configuration	R96	1.8	C101	C101	C101	C101	E.1/29	
	long dialling number string	R96	1.9	M	M	M	M	E.1/29	
	long first alpha identifier	R96	1.10	M	M	M	M	E.1/29	
	Called party subaddress	R96	1.11	M	M	M	M	E.1/29	
	maximum duration for the redial mechanism	R96	1.12	C119	C119	C119	C119	E.1/29	
	second alpha identifier	R98	2.1			M	M	E.1/29 AND E.1/63	
	UCS2 Display	R97	TBD					E.1/29 AND E.1/15	
	icons	R98	3.1,3.2, 3.3, 3.4			C108	C108	E.1/29	
17	**POLLING OFF 27.22.4.14**	**R96**	1.1	M	M	M	M	E.1/23	
18	**PROVIDE LOCAL INFO 27.22.4.15**								
	location information	R96	1.1	M	M	M	M	E.1/31	
	IMEI	R96	1.2	M	M	M	M	E.1/31	
	network measurement results and BCCH channel list	R98	1.3			M	M	E.1/32 AND	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
								E.1/67	
	Date, time and time zone	R98	1.4			M	M	E.1/59	
	language setting	R99	1.5				M	E.1/68	
	Timing advance	R99	1.6				M	E.1/69	
19	**SET UP EVENT LIST 27.22.4.16**								
	Set up call connected event	R97	1.1		M	M	M	E.1/33 AND E.1/35	
	Replace by new event list	R97	1.2		M	M	M	E.1/33 AND E.1/35 AND E.1/36	
	Remove event	R97	1.3		M	M	M	E.1/33 AND E.1/35	
	Remove Event on ME Power Cycle	R97	1.4		M	M	M	E.1/33 AND E.1/35	
20	**PERFORM CARD APDU 27.22.4.17**								
	Additional card inserted, Select MF and Get Response	R98	1.1			C109	C109	E.1/51	
	Additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN	R98	1.2			C109	C109	E.1/51	
	Additional card inserted, card powered off	R98	1.3			C109	C109	E.1/51	
	No card inserted, card powered off	R98	1.4			C109	C109	E.1/51	
	Invalid card reader identifier	R98	1.5			C109	C109	E.1/51	
	Detachable reader	R98	2.1			C116	C116	E.1/51	
21	**POWER OFF CARD 27.22.4.18**								
	Additional card inserted	R98	1.1			C109	C109	E.1/50	
	No card inserted	R98	1.2			C109	C109	E.1/50	
	Detachable reader	R98	2.1			C116	C116	E.1/50	
22	**POWER ON CARD 27.22.4.19**								
	Additional card inserted	R98	1.1			C109	C109	E.1/49	
	No ATR	R98	1.2			C109	C109	E.1/49	
	No card inserted	R98	1.3			C109	C109	E.1/49	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
	Detachable reader	R98	2.1			C116	C116	E.1/49	
23	**GET READER STATUS 27.22.4.20**								
	Additional card inserted, card powered	R98	1.1			C109	C109	E.1/52	
	Additional card inserted, card not powered	R98	1.2			C109	C109	E.1/52	
	Additional card inserted, card not present	R98	1.3			C109	C109	E.1/52	
	Detachable reader	R98	2.1			C116	C116	E.1/52	
24	**TIMER MANAGEMENT 27.22.4.21.1**								
	Start timer 1 several times, get the current value of the timer and deactivate the timer successfully	R98	1.1			M	M	E.1/57 AND E.1/58	
	Start timer 2 several times, get the current value of the timer and deactivate the timer successfully	R98	1.2			M	M	E.1/57 AND E.1/58	
	Start timer 8 several times, get the current value of the timer and deactivate the timer successfully	R98	1.3			M	M	E.1/57 AND E.1/58	
	Try to get the current value of a timer which is not started: action in contradiction with the current timer state	R98	1.4			M	M	E.1/57 AND E.1/58	
	Try to deactivate a timer which is not started: action in contradiction with the current timer state	R98	1.5			M	M	E.1/57 AND E.1/58	
	Start 8 timers successfully	R98	1.6			M	M	E.1/57 AND E.1/58	
25	**ENVELOPPE TIMER EXPIRATION 27.22.4.21.2**								
	Pending proactive SIM command	R98	2.1			M	M	E.1/6 AND E.1/57	
	SIM application toolkit busy	R98	2.2			M	M	E.1/6 AND E.1/57 AND E.1/20	
26	**SET UP IDLE MODE TEXT 27.22.4.22**								
	Display idle mode text	R98	1.1			M	M	E.1/61 AND E.1/33	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
								AND E.1/39	
	Replace idle mode text	R98	1.2			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Remove idle mode test	R98	1.3			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Competing information on ME display	R98	1.4			M	M	E.1/61 AND E.1/33 AND E.1/39	
	ME powered cycled	R98	1.5			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Refresh with SIM initialization	R98	1.6			M	M	E.1/61 AND E.124 AND E.1/33 AND E.1/39	
	Large text string	R98	1.7			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Followed by a Display Text	R98	1.8			M	M	E.1/61 AND	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
								E.1/33 AND E.1/39 AND E.1/17	
	Followed by a Play Tone	R98	1.9			M	M	E.1/61 AND E.1/33 AND E.1/39 AND E.1/21	
	icons	R98	2.1, 2.2, 2.3, 2.4			C108	C108	E.1/61 AND E.1/39	
	UCS2 display	R98	3.1			C118	C118	E.1/61 AND E.1/15 AND E.1/39	
27	**RUN AT COMMAND 27.22.4.23**								
	No alpha Identifier	R98	1.1			C110	C110	E.1/62	
	null data alpha identifier presented	R98	1.2			C110	C110	E.1/62	
	alpha identifier presented	R98	1.3			C110	C110	E.1/62	
	icons	R98	2.1, 2.2, 2.3, 2.4, 2.5			C114	C114	E.1/62	
28	**SEND DTMF 27.22.4.24**								
	A call has been successfully established before the beginning of the test	R98	1.1			M	M	E.1/66	
	alpha identifier	R98	1.2, 1.3			M	M	E.1/66	
	Mobile is not in a speech call	R98	1.4			M	M	E.1/66	
	Icons	R98	2.1, 2.2, 2.3			C108	C108	E.1/66	
	UCS2 display	R98	3.1			C118	C118	E.1/66 AND	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
								E.1/15	
29	**LANGUAGE NOTIFICATION 27.22.4.25**								
	Specific language notification	R99	1.1				M	E.1/70	
	Non specific language notification	R99	1.2				M	E.1/70	
30	**LAUNCH BROWSER 27.22.4.26**								
	No session already launched: Connect to the default URL	R99	1.1				C111	E.1/71	
	connect to the specified URL, alpha identifier length=0	R99	1.2				C111	E.1/71	
	Browser identity, no alpha identifier	R99	1.3				C111	E.1/71	
	one bearer specified and gateway/proxy identity	R99	1.4				C111	E.1/71	
	several bearers specified, gateway/proxy id specified	R99	1.5				C111	E.1/71	
	Interaction with current session	R99	2.1, 2.2, 2.3				C111	E.1/71	
	UCS2 display	R99	3.1				C117	E.1/71 AND E.1/15	
	icons	R99	4.1, 4.2				C115	E.1/71	
31	**OPEN CHANNEL 27.22.4.27**								
	Immediate link establishment, CSD, 9600 bps	R99	1.1, 1.2, 1.3, 1.4, 1.5, 1.6				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, 9600 bps, performed with modification	R99	1.7				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, Network currently unable to process command	R99	1.8				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, No channel available	R99	1.9				C113	E.1/89 AND E.1/97	
	ME busy	R99	1.10				M	E.1/89 AND E.1/97 AND E.1/29	
32	**CLOSE CHANNEL 27.22.4.28**								
	successful	R99	1.1				C113	E.1/89	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
								AND E.1/90	
	with an invalid channel identifier	R99	1.2				C113	E.1/89 AND E.1/90	
	on an already closed channel	R99	1.3				C113	E.1/90	
33	**RECEIVE DATA 27.22.4.29**								
	already opened channel	R99	1.1				C113	E.1/89 AND E.1/91	
34	**SEND DATA 27.22.4.30**								
	immediate mode	R99	1.1				C113	E.1/89 AND E.1/92	
	Store mode	R99	1.2				C113	E.1/89 AND E.1/92	
	Store mode, Tx buffer fully used	R99	1.3				C113	E.1/89 AND E.1/92	
	2 consecutive SEND DATA Store mode	R99	1.4				C113	E.1/89 AND E.1/92	
	immediate mode with a bad channel identifier	R99	1.5				C113	E.1/89 AND E.1/92	
	immediate mode, Proactive SIM session terminated by the user	R99	1.6				C113	E.1/89 AND E.1/92	
35	**GET CHANNEL STATUS 27.22.4.31**								
	without any BIP channel opened	R99	1.1				C113	E.1/93	
	with a BIP channel currently opened	R99	1.2				C113	E.1/89 AND E.1/93	
	after a link dropped	R99	1.3				C113	E.1/89 AND	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
								E.1/93	
36	**DATA DOWNLOAD TO SIM 27.22.5**								
37	**SMS-PP DATA DOWNLOAD 27.22.5.1**								
	General data coding, SIM responds with '90 00'	R96	1.1	M	M	M	M	E.1/2	
	SIM responds with '91 XX'	R96	1.2	M	M	M	M	E.1/2	
	More time	R96	1.3	M	M	M	M	E.1/2	
	8 bit alphabet	R96	1.4	M	M	M	M	E.1/2	
	Data coding / message class	R96	1.5, 1.6	M	M	M	M	E.1/2	
38	**SMS-CB DATA DOWNLOAD 27.22.5.2**								
	ME does not display message	R96	1.1	M	M	M	M	E.1/3	
	More time	R96	1.2	M	M	M	M	E.1/3 AND E.1/20	
	ME displays message	R96	1.3	M	M	M	M	E.1/3	
39	**CALL CONTROL BY SIM 27.22.6**								
	Procedure for MO calls (Cell identity in envelope call control)	R97	1.1 to 1.14		M	M	M	E.1/10 AND E.1/11 AND E.1/13 AND E.1/29	
	Procedure for SS (Cell identity in envelope call control)	R97	2.1, 2.2, 2.3, 2.4		M	M	M	E.1/10 AND E.1/11	
	Interaction with FDN (Cell identity in envelope call control)	R97	3.1, 3.2, 3.3, 3.5		M	M	M	E.1/10	
	Support of BDN service (Cell identity in envelope call control)	R97	4.1, 4.2, 4.3, 4.4		M	M	M	E.1/10	
	~~MO SMS control by SIM~~	~~R97~~	~~TBD~~					~~E.1/12~~	
40	**EVENT DOWNLOAD 27.22.7**								
	27.22.7.1: MT call event	R97	1.1		M	M	M	E.1/34 AND E.1/33	
	27.22.7.2.1: call connected event	R97	1.1		M	M	M	E.1/35 AND E.1/33	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
	27.22.7.2.2: ME supporting SET UP CALL	R97	2.1		M	M	M	E.1/35 AND E.1/29 AND E.1/33	
	27.22.7.3: call disconnected event	R97	1.1		M	M	M	E.1/36 AND E.1/33	
	27.22.7.4: location status event	R97	1.1		M	M	M	E.1/37 AND E.1/33	
	27.22.7.5: user activity event	R97	1.1		M	M	M	E.1/38 AND E.1/33	
	27.22.7.6: idle screen available event	R97	1.1		M	M	M	E.1/39 AND E.1/33	
	27.22.7.7.1: Card reader status normal	R98	1.1			C109	C109	E.1/40 AND E.1/33	
	27.22.7.7.2: Detachable card reader	R98	2.1			C116	C116	E.1/40 AND E.1/33	
	27.22.7.8: language selection event	R99	1.1				M	E.1/41 AND E.1/33	
	27.22.7.9: Browser termination event	R99	1.1				C111	E.1/42 AND E.1/33	
	27.22.7.10: Data available event	R99	1.1				C113	E.1/43 AND E.1/89	
	27.22.7.11: Channel status event	R99	1.1				C113	E.1/44 AND E.1/89	
41	**MO SMS Control by SIM 27.22.8**								

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Suppo
	With proactive command, Allowed , no modification	R98	1.1			M	M	E1/12 AND E.1/26	
	With user SMS, Allowed , no modification	R98	1.2			M	M	E1/12	
	With proactive command, Not allowed	R98	1.3			M	M	E1/12 AND E.1/26	
	With user SMS, Not allowed	R98	1.4			M	M	E1/12	
	With proactive command, Allowed, with modifications	R98	1.5			M	M	E1/12 AND E.1/26	
	With user SMS, Allowed, with modifications	R98	1.6			M	M	E1/12	
	With Proactive command, the SIM responds with '90 00', Allowed, no modification	R98	1.7			M	M	E1/12 AND E.1/26	
	Send Short Message attempt by user, the SIM responds with '90 00', Allowed, no modification	R98	1.8			M	M	E1/12	
	Send Short Message attempt by user, the SIM responds with '93 00	R98	1.9			M	M	E1/12	

27.22.8 MO SHORT MESSAGE CONTROL BY SIM

27.22.8.1 Definition and applicability

See clause 3.2.2.

27.22.8.2 Conformance requirement

The ME shall support the MO SEND SHORT MESSAGE CONTROL facility as defined in:

- 3GPP TS 11.14 [15] clause 9.2.

The ME shall also support the SEND SMS facitily as specified in

- 3GPP TS 11.14 [15] clause 6.4.10

27.22.8.3 Test purpose

To verify that for all SMS sending attempts, even those resulting from a SEND SHORT MESSAGE proactive SIM command, the ME shall first pass the RP_destination_address of the service center and the TP_Destination_Address to the SIM, using the ENVELOPE (MO Short Message CONTROL).

To verify that if the SIM responds with '90 00', the ME shall send the SMS with the address unchanged.

To verify that if the SIM responds with '93 00', the ME shall not send the SMS and may retry the command.

To verify that if the SIM responds with '9F XX', the ME shall use the GET RESPONSE command to get the response data. The response data from the SIM shall indicate to the ME whether to send the SM as proposed, not send the SM, send the SM using the data supplied by the SIM.

To verify that, in the case where the initial SM request results from a proactive SEND SHORT MESSAGE, if the MO SMS CONTROL result is "not allowed" or "allowed with modifications", the ME shall inform the SIM using TERMINAL RESPONSE "interaction with call control by SIM or MO short message control by SIM, action not allowed".

27.22.8.4 Method of tests

27.22.8.4.1 Initial conditions

The ME is connected to the System Simulator and the SIM Simulator.
Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The MO SMS control service is enabled.

The SMS service center address in the ME shall be set to “+112233445566778” prior to the execution of the tests.

The GSM parameters of the system simulator are:

- Mobile Country Code (MCC) = 1
- Mobile Network Code (MNC) = 1
- Location Area Code (LAC) = 1
- Cell Identity value = 1

27.22.8.4.2 Procedure

Expected Sequence 1.1 (MO SM CONTROL BY SIM , with Proactive command, Allowed, no modification')

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1	
6	SIM -> ME	9F 02	
7	ME -> SIM	GET RESPONSE	
8	SIM -> ME	MO SMS CONTROL RESULT 1.1.1	[“Allowed, no modification”]
9	ME -> SS	Send SMS-PP Message 1.1	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
10	SS -> ME	SMS RP-ACK	
11	ME -> SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing not required

Device identities
- Source device: SIM
- Destination device: Network
- Alpha identifier: "Send SM"

Address
- TON: International number
- NPI: "ISDN / telephone numbering plan"
- Dialling number string "112233445566778"

SMS TPDU
- TP-MTI SMS-SUBMIT
- TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
- TP-VPF TP-VP field not present
- TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

BER-TLV:	D0	37	81	03	01	13	00	82	02	81	83	85
	07	53	65	6E	64	20	53	4D	86	09	91	11
	22	33	44	55	66	77	F8	8B	18	01	00	09
	91	10	32	54	76	F8	40	F4	0C	54	65	73
	74	20	4D	65	73	73	61	67	65			

SMS-PP (SEND SHORT MESSAGE) Message 1.1

Logically:

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

ENVELOPE MO SHORT MESSAGE CONTROL 1.1.1

Logically:

Device identities

Source device:	ME
Destination device:	SIM

RP Destination Address

TON:	International
NPI:	"ISDN / telephone numbering plan" or "unknown"
Dialling number string	“112233445566778”

TP Destination Address

TON:	International
NPI:	"ISDN / telephone numbering plan" or "unknown"
Dialling number string	“012345678”

Location Information

MCC & MNC	the mobile country and network code (00F110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Coding:

BER-TLV:	D5	20	02	02	82	81	06	09	91	11	22
	33	44	55	66	77	F8	06	06	91	10	32
	54	76	F8	13	07	00	F1	10	00	01	00
	01										

MO SHORT MESSAGE CONTROL RESULT 1.1.1

Logically:

MO Short Message control result : '00' = Allowed, no modification

Coding:

BER-TLV:	00	00

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1

Logically:

Command details

Command number:	1
Command type:	SEND SHORT MESSAGE
Command qualifier:	packing not required

Device identities

Source device:	ME
Destination device:	SIM

Result

General Result:	Command performed successfully

Coding:

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

Expected Sequence 1.2 (MO SM CONTROL BY SIM , with user SMS, Allowed, no modification')

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data “Test Message “ and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1	
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	MO SHORT MESSAGE CONTROL RESULT 1.1.1	[“Allowed, no modification”]
6	ME -> SS	Send SMS-PP Message 1.1	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
7	SS -> ME	SMS RP-ACK	

Expected Sequence 1.3 (MO SM CONTROL BY SIM , with Proactive command, Not allowed')

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1	
6	SIM -> ME	9F 02	
7	ME -> SIM	GET RESPONSE	
8	SIM -> ME	MO SHORT MESSAGE CONTROL RESULT 1.3.1	[“not Allowed”]
9	ME -> SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1	[Permanent Problem - Interaction with Call Control or MO short message control by SIM]
10	ME→ SS	The ME does not send the Short Message	

MO SHORT MESSAGE CONTROL RESULT 1.3.1

Logically:

MO Short Message control result : '01' = Not Allowed

Coding:

BER-TLV:	01	00

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1

Logically:

Command details
Command number: 01
Command Type: SEND SHORT MESSAGE
SMS Packing Required: Yes
Device identities
Source device: ME
Destination device: SIM
Result

General Result: Interaction with call control or MO-SM by SIM permanent problem

Additional information: Action not allowed

Coding:

BER-TLV:	81	03	01	13	01	82	02	82	81	83	02	39
	01											

Expected Sequence 1.4 (MO SM CONTROL BY SIM , with user SMS, Not allowed ')

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data "Test Message " and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1	
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	MO SM CONTROL RESULT 1.3.1	["Not allowed"]
6	ME → SS	The ME does not send the Short Message	

Expected Sequence 1.5 (MO SM CONTROL BY SIM , with Proactive command, Allowed with modifications')

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	Send SMS to "+012345678"
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1	
6	SIM -> ME	9F XX	9F 14
7	ME -> SIM	GET RESPONSE	
8	SIM -> ME	MO SM CONTROL RESULT 1.5.1	["Allowed with modifications"]
9	ME -> SS	Send SMS-PP Message 1.5	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.5 with the data provided by the SIM to the changed Service Center Adress "+112233445566779"]
10	SS -> ME	SMS RP-ACK	
11	ME -> SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1	

MO SHORT MESSAGE CONTROL RESULT 1.5.1

Logically:

MO Short Message control result : '02' = Allowed with modifications

RP Destination Address of the Service Center

TON: International

NPI: "ISDN / telephone numbering plan" or "unknown"

Dialling number string: "112233445566779"

TP Destination Address

TON: International

NPI: "ISDN / telephone numbering plan" or "unknown"

Dialling number string: "012345679"

Coding:

BER-TLV:	02	13	86	09	91	11	22	33	44	55	66
	77	F9	86	06	91	10	32	54	76	F9	

SMS-PP (SEND SHORT MESSAGE) Message 1.5

Logically:

- SMS 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: "012345679"
  - TP-PID: Short message type 0
  - TP-DCS
    - Message coding: 8-bit data
    - Message class: class 0
  - TP-UDL: 12
  - TP-UD: "Test Message"

Coding:

BER-TLV:	01	00	09	91	10	32	54	76	F9	40	F4	0C
	54	65	73	74	20	4D	65	73	73	61	67	65

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1

Logically:

- Command details
  - Command number: 01
  - Command Type: SEND SHORT MESSAGE
  - SMS Packing Required: Yes
- Device identities
  - Source device: ME
  - Destination device: SIM
- Result
  - General Result: Command performed, but modified by call control by SIM

Coding:

BER-TLV:	81	03	01	13	01	82	02	82	81	83	01	05

Expected Sequence 1.6 (MO SM CONTROL BY SIM , with user SMS, Allowed with modifications')

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data “Test Message “ and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1	
3	SIM -> ME	9F XX	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	MO SM CONTROL RESULT 1.5.1	[“Allowed with modifications”]
6	ME-> SS	Send SMS-PP Message 1.5	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1. 5 with the data provided by the SIM] to the changed Service Center Adress “+112233445566779”
7	SS -> ME	SMS RP-ACK	

Expected Sequence 1.7 (MO SM CONTROL BY SIM , with Proactive command, the SIM responds with '90 00', Allowed, no modification)

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	**Send SMS to “+012345678”**
4	ME -> USER	Display "Send SM"	**[Alpha Identifier]**
5	ME → SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1	
6	SIM → ME	90 00	
7	ME → SS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
8	SS -> ME	SMS RP-ACK	
9	ME -> SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	

Expected Sequence 1.8 (MO SM CONTROL BY SIM , Send Short Message attempt by user, the SIM responds with '90 00', Allowed, no modification)

Step	Direction	Message / Action	Comments
1	User → ME	The user makes a SMS with the user data “Test Message “ and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME → SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1	
3	SIM → ME	90 00	
4	ME → SS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
5	SS -> ME	SMS RP-ACK	

Expected Sequence 1.9 (MO SM CONTROL BY SIM , Send Short Message attempt by user, the SIM responds with '93 00')

Step	Direction	Message / Action	Comments
1	User → ME	The user makes a SMS with the user data "Test Message " and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME → SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1	
3	SIM → ME	93 00	
4	ME → SS	No action allowed	[The ME shall not send the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1or any other SM to the SS]

27.22.8.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.9.

3GPP TSG-T3 Meeting #29
Dallas, USA, 18-21 November 2003

Tdoc ⌘T3-031008

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A056** ⌘**rev** **-** ⌘ Current version: **8.5.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Re-Introduction of changes already approved at the last T3.
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	18/11/03
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	Approved changes for the version 8.4.0 of 3GPP TS 11.10-4 were not fully integrated into the 8.5.0 version of this specification. CRs : T3-030639, T3-0300724, T3-0300646, T3-0300708, T3-0300711, T3-0300641, T3-0300686, T3-0300642, T3-0300712, T3-0300645, T3-0300709, T3-0300724, T3-0300647
Summary of change:	⌘	This documents recaps the missing changes to be integrated
Consequences if not approved:	⌘	Remaining errors in the specification and inconsistency between the version 8.5.0 and the approved CRs based on v8.4.0.

Clauses affected:	⌘	27.22.4.3.1.4.2, 27.22.6.2.4.2, 27.22.1.6.4.2, 27.22.4.2.7.4.2, 27.22.4.6.4.2, 27.22.4.15.4.2, 27.22.4.30.4.2, 27.22.4.10.1.5, 27.22.4.11.1.4.2, 27.22.4.22.1.4.2, 27.22.4.8.1.5, 27.22.6.2.4.2, 27.22.6.2.4.1			
		Y	**N**		
Other specs affected:	⌘		**X**	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

27.22.4.3.1.4.2 Procedure

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

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

PROACTIVE COMMAND: GET INPUT 1.2.1

Logically:

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

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

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

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

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

TERMINAL RESPONSE: GET INPUT 1.2.1

Logically:

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

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

Result
- General Result: Command performed successfully

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

27.22.6.2.4.2 Procedure

Expected Sequence 2.1 (CALL CONTROL BY SIM , send SS, the SIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → SIM	ENVELOPE CALL CONTROL 2.1.1	
3	SIM → ME	90 00	
4	ME → SS	REGISTER 2.1	[The ME sends the supplementary service operation with the information as sent to the SIM]
5	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	

ENVELOPE CALL CONTROL 2.1.1

Logically:

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

SS String~~Address~~
- TON/NPI: "FF"
- Dialling number string "*21#"

Location Information
- MCC & MNC the mobile country and network code (F110)
- LAC the location Area Code (1)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	F1	10	00	01	00	01				

REGISTER 2.1

Logically (only SS argument):

ACTIVATE SS ARGUMENT
- SS-Code:
  - Call Forwarding Unconditional
- TeleserviceCode
  - All Tele Services

Coding:

BER-TLV	30	06	04	01	21	83	01	00				

RELEASE COMPLETE (SS RETURN RESULT) 2.1

Logically (only from operation code):

ACTIVATE SS RETURN RESULT
- ForwardingInfo
- SS-Code
  - Call Forwarding Unconditional
- ForwardFeatureList

ForwardingFeature
TeleserviceCode
- All Tele Services
SS-Status
- state ind.: operative
- provision ind.: provisioned
- registration ind.: registered
- activation ind.: active

Coding:

BER-TLV	0C	A0	0D	04	01	21	30	08	30	06	83	01
	00	84	01	07								

Expected Sequence 2.2 (CALL CONTROL BY SIM , send SS, allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → SIM	ENVELOPE CALL CONTROL 2.2.1	
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→ SS	The ME sends the supplementary service operation with the information as sent to the SIM	

ENVELOPE CALL CONTROL 2.2.1

Logically:

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

SS String~~Address~~
- TON: Unknown
- NPI: "ISDN / telephone numbering plan" or "unknown"
- Dialling number string "*21*#"

Location Information
- MCC & MNC the mobile country and network code (F110)
- LAC the location Area Code (1)
- Cell ID Cell Identity Value (0001)

27.22.6.1.4.2 Procedure

Expected Sequence 1.1 (CALL CONTROL BY SIM , set up call attempt by user, the SIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.1.1	
3	SIM → ME	90 00	
4	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"

ENVELOPE CALL CONTROL 1.1.1

Logically:

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

Address
- TON: International
- NPI: "ISDN / telephone numbering plan" or "unknown"
- Dialling number string "01234567890123456789"

Location Information
- MCC & MNC the mobile country and network code (F110)
- LAC the location Area Code (1)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	1A	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	13	07	00	F1	10
	00	01	00	01								

Expected Sequence 1.2 (CALL CONTROL BY SIM , set up call attempt by user, allowed without modification)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.2.1	
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
6	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]

[…]

Expected Sequence 1.7 (CALL CONTROL BY SIM, set up call attempt resulting from a set up call proactive command, allowed with modifications)

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1 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 → SS	The ME sets up the call to "+011111111111"	

PROACTIVE COMMAND: SET UP CALL 1.7.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: Only if not currently busy on another call

Device identities
- Source device: SIM
- Destination device: Network

Alpha identifier: "+012340123456"

Address
- TON: Intern~~N~~ational
- NPI: "ISDN / telephone numbering plan" or "unknown"
- Dialling number string "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

27.22.4.2.7.4.2 Procedure

Expected Sequence 7.1 (GET INKEY, help information available)

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

27.22.4.6.4.2 Procedure

Expected Sequence 1.1 (POLL INTERVAL, Seconds)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POLL INTERVAL 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POLL INTERVAL 1.1.1	[Duration: 20 seconds]
4	ME → SIM	TERMINAL RESPONSE: POLL INTERVAL 1.1.1	[Command performed successfully]
5	ME	ME polls in intervals of 20 seconds	

PROACTIVE COMMAND: POLL INTERVAL 1.1.1

Logically:

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

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

Duration
- Time unit: Seconds
- Time interval: 20

Coding:

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

TERMINAL RESPONSE: POLL INTERVAL 1.1.1

Logically:

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

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

Result
- General Result: Command performed successfully

Duration
- Time unit: Seconds
- Time interval: 20

Coding:

BER-TLV:	81	03	01	~~23~~03	00	82	02	82	81	83	01	00
	84	02	01	14								

27.22.4.15.4.2 Procedure

Expected Sequence 1.1 (PROVIDE LOCAL INFORMATION, Local Info (MCC, MNC, LAC & Cell ID))

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PROVIDE LOCAL INFORMATION 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1	[Command performed successfully, MCC MNC LAC and Cell Identity as system simulator]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "00" Location information (MCC MNC LAC and Cell Identity)

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

Coding:

BER-TLV:	D0	09	81	03	01	26	00	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "00" Location information (MCC MNC LAC and Cell Identity)

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

Result
- General Result: Command performed successfully

Location Information
- MCC & MNC: MCC = 1, MNC = 1
- Location Area Code: 1
- Cell Identity Value: 1

Coding:

BER-TLV:	81	03	01	26	00	82	02	82	81	83	01	00
	93	07	00	F1	10	00	01	00	01			

Expected Sequence 1.2 (PROVIDE LOCAL INFORMATION, IMEI of the ME)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PROVIDE LOCAL INFORMATION 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1	

4	ME → SIM	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1	[Command performed successfully, IMEI as system simulator]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "01" IMEI of the ME

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

Coding:

BER-TLV:	D0	09	81	03	01	26	01	82	02	81	82

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "01" IMEI of the ME

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

Result
- General Result: Command performed successfully

IMEI
- IMEI of the ME: The IMEI of the ME

The result coding depends on the Mobile IMEI value.

Coding:

BER-TLV:	81	03	01	26	01	82	02	82	81	83	01	00
	94	08	XX	XX	XX	XX	XX	XX	XX	XX		

As an example, if the IMEI of the mobile is "123456789012345~~6~~" then XX XX XX XX XX XX XX XX = 1A 32 54 76 98 10 32 54. For further details see also 3GPP TS 04.08 [10], clause 10.5.1..

27.22.4.30.4.2 Procedure

[…]

Expected sequence 1.4 (SEND DATA, 2 consecutive SEND DATA Store mode)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1	[Immediate link establishment, CSD, 9600bps V.32, 1KB buffer]
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.1.1	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1kByte of data by packet of 200 Bytes
10	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
11	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
12	ME → SIM	FETCH	
13	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
14	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
15	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
16	ME → SIM	FETCH	
17	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
18	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
19	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
20	ME → SIM	FETCH	
21	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
22	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
23	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	…
24	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	
25	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]
26	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
27	ME → SIM	FETCH	
28	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1kByte of data by packet of 200 Bytes
29	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
30	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
31	ME → SIM	FETCH	
32	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
33	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
34	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
35	ME → SIM	FETCH	
36	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
37	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]

38	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
39	ME → SIM	FETCH	
40	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
41	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
42	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	…
43	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	
44	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]

27.22.4.10.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.8.

27.22.4.11.1.4.2 Procedure

[…]

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*+012345678901234567890123456789012345678901234567*11#"

[…]

PROACTIVE COMMAND: SEND SS 2.1.1

Logically:

Command details
- Command number: 1
- Command type: SEND SS
- Command qualifier: "00"

Device identities
- Source device: SIM
- Destination device: Network
- Alpha identifier: "Basic Icon"

SS String
- TON: International
- NPI: "ISDN / telephone numbering plan"
- SS string: "**21*+0123456789012345678 9#"

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

[…]

PROACTIVE COMMAND: SEND SS 2.2.1

Logically:

Command details
- Command number: 1
- Command type: SEND SS
- Command qualifier: "00"

Device identities
- Source device: SIM
- Destination device: Network
- Alpha identifier: "Colour Icon"

SS String
- TON: International
- NPI: "ISDN / telephone numbering plan"
- SS string: "**21*+0123456789012345678 9#"

Icon Identifier:
- Icon qualifier: icon is self-explanatory

Icon Identifier: record 2 in $EF_{(IMG)}$

27.22.4.22.1.4.2 Procedure

Expected Sequence 1.1 (SET UP IDLE MODE TEXT, display idle mode text)

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	[Idle Mode Text]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1~~2~~	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1	[Command performed successfully]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display "Idle Mode Text"	

[…]

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1~~2~~	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1~~2~~	[Idle Mode Text]
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1~~2~~	
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.2.1	[Idle Mode Text]
8	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.2.1	
9	SIM → ME	PROACTIVE SIM SESSION ENDED	
10	USER → ME	Select idle screen	Only if idle screen not already available
11	ME → USER	Display "Toolkit Test"	

[…]

Expected Sequence 1.4 (SET UP IDLE MODE TEXT, competing information on ME display)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1~~/2~~	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.2	["Idle Mode Text"]
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.12	[Command performed successfully]
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	SS → ME	SMS PP 1.4.1	[Display immediate SMS]
8	ME → USER	Display "Short Message"	
9	USER → ME	Clear display and select idle screen	
10	ME → USER	Display "Idle Mode Text"	
11	SIM → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.4.1	
12	ME → SIM	FETCH	
13	SIM → ME	PROACTIVE COMMAND: DISPLAY TEXT 1.4.1	[Normal priority, wait for user to clear message, unpacked, 8 bit data]
14	ME → USER	Display " Toolkit Test 1"	
15	USER → ME	Clear Message	
16	ME → SIM	TERMINAL RESPONSE: DISPLAY TEXT 1.4.1	[Command performed successfully]
17	ME → USER	Display "Idle Mode Text"	
18	SIM → ME	PROACTIVE COMMAND PENDING: PLAY TONE 1.4.1	
19	ME → SIM	FETCH	
20	SIM → ME	PROACTIVE COMMAND: PLAY TONE 1.4.1	
21	ME → USER	Display "Dial Tone" Play a standard supervisory dial tone through the external ringer for a duration of 5 s	

22	ME → SIM	TERMINAL RESPONSE: PLAY TONE 1.4.1	[Command performed successfully]
23	SIM → ME	PROACTIVE SIM SESSION ENDED	
24	ME → USER	Display "Idle Mode Text"	

[…]

Expected Sequence 1.5 (SET UP IDLE MODE TEXT, ME power cycled)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.~~2~~1	["Idle Mode Text"]
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.~~2~~1	[command performed successfully]
5	USER → ME	Select idle screen	Only if idle screen not already available
6	ME → USER	Display "Idle Mode Text"	
7	USER → ME	Power off ME	
8	ME ⇔ SIM	GSM TERMINATION PROCEDURE	
9	USER → ME	Power on ME	
10	ME ⇔ SIM	GSM ACTIVATION PROCEDURE	
11	ME ⇔ SIM	SIM INITIALIZATION	
12	USER → ME	Select idle screen	Only if idle screen not already available
13	ME → USER	Display idle screen / "Idle Mode Text" not to be displayed	

27.22.4.8.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1 and in expected sequence 1.2.

27.22.6.2.4.2 Procedure

[...]

Expected Sequence 2.2 (CALL CONTROL BY SIM , send SS, allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → SIM	ENVELOPE CALL CONTROL 2.2.1	
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 2.2.1	[Call control result: "Allowed without modifications"]
6	ME → SS	The ME sends the supplementary service operation with the information as sent to the SIM REGISTER 2.1	[The ME sends the supplementary service operation with the information as sent to the SIM]
7	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	

ENVELOPE CALL CONTROL 2.2.1

Logically:

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

AddressSS String
- TON/NPI: "FF"~~Unknown~~
- ~~NIP: "ISDN / telephone numbering plan" or "unknown"~~
- Dialling number string "*21*#"

Location Information
- MCC & MNC the mobile country and network code (F110)
- LAC the location Area Code (1)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	~~13~~12	82	02	82	81	89	~~04~~03	~~81~~FF	2A	~~A1~~B1	~~FB~~13
	07~~13~~	00~~07~~	F1~~00~~	10~~F1~~	00~~10~~	01~~00~~	00~~01~~	01~~00~~	~~01~~			

27.22.6.2.4.1 Initial conditions

The ME is connected to the SIM Simulator and the System Simulator.

3GPP TSG-T3 Meeting #29
Dallas, USA, 18.-21.11.2003

Tdoc ⌘T3-031009

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A057** ⌘**rev** **-** ⌘ Current version: **8.5.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	CR 11.10-4 R99: Essential corrections
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	19/11/2003
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change: ⌘

a) 27.22.2 The size coding of the colour icon referenced in record 2 of EF(IMG) is incorrect.

b) 27.22.4.1.1.4.2 Procedure (Display Text): The leading space character in the message in Expected Sequence 1.6, Step 4 shall be deleted, because it's not contained in the coding of the corresponding proactive command.

c) 27.22.4.1.1.4.2 Procedure (Display Text): The ending greater character in the message in Expected Sequence 1.7, Step 4 is missing.

d) 27.22.4.2.1.4.2 Procedure (Get Inkey): The ending space character in the message in Expected Sequence 1.6, Step 4 shall be deleted, because it's not contained in the coding of the corresponding proactive command.

e) 27.22.4.2.7.4.2 Procedure (Get Inkey): The result TLV value coding in TERMINAL RESPONSE: GET INKEY 7.1.2 is incorrect.

f) TERMINAL RESPONSE: GET INPUT 1.1.1 and TERMINAL RESPONSE: GET INPUT 1.10.1: The command qualifiers are not equal to the command qualifier of the corresponding proactive commands and therefore incorrect.

g) 27.22.4.3.1.4.2 Procedure (Get Input): The leading space character in the message in Expected Sequence 1.2, Step 4 shall be deleted, because it's not contained in the coding of the corresponding proactive command.

h) 27.22.4.3.1.4.2 Procedure (Get Input): According to 3GPP TS 11.14, ch. 6.4.3 (Get Input) it is not mandatory to display the text entered by the user

if bit 3 of the command qualifier is set to 0 (ME may echo user input on the display). Therefore step 6 of expected sequence 1.3 shall be deleted.

i) 27.22.4.3.1.4.2 Procedure (Get Input), Expected sequence 1.4: The directions column of step 6 is not sufficient. Furthermore this test only ensures that the input is not revealed after entering the input and completion, but not during entering the input itself.

j) 27.22.4.3.1.4.2 Procedure (Get Input), Expected sequence 1.5: According to 3GPP TS 11.14, ch. 6.4.3 (Get Input) the “ME MMI is responsible for managing the entry of the correct number of characters.” In consequence no fixed default behaviour to handle an input with incorrect length can be tested.

k) 27.22.4.3.1.4.2 Procedure (Get Input), Expected sequence 1.10, step 4: The range of the response length is coded as 1-5, but the expected range in the sequence table is 0-5.

l) 27.22.4.3.3.4.2: In expected sequences 3.1 and 3.2 the text string “HELLO” shall be entered by the user. Therefore the command qualifiers in PROACTIVE COMMAND: GET INPUT 3.1.1, PROACTIVE COMMAND: GET INPUT 3.2.1, TERMINAL RESPONSE: GET INPUT 3.1.1 and TERMINAL RESPONSE: GET INPUT 3.2.1 are incorrect, because they state that only digits (0..9,*,# and +) are allowed as input characters. In step 5 of expected sequence 3.2 the user is requested to enter the input “Hello” instead of “HELLO” as defined in the corresponding TERMINAL RESPONSE: GET INPUT 3.2.1.

m) 27.22.4.3.4.4.2 Procedure (Get Input): The ending character in the message in Expected Sequence 4.2, Step 4 shall be deleted, because it’s not contained in the coding of the corresponding proactive command.

n) 27.22.4.3.5.4.2 Procedure (Get Input): The coding of PROACTIVE COMMAND: GET INPUT 5.2.1 is incorrect, because it containes nine “1” and eleven “2” characters. According to the sequence table and the logical value both characters shall exist ten times each.

o) 27.22.4.3.6.4.2 Procedure (Get Input): The coding of the command qualifier byte in TERMINAL RESPONSE: GET INPUT 6.1.1A is different to the corresponding byte in PROACTIVE COMMAND: GET INPUT 6.1.1.

p) 27.22.4.6.4.2 Procedure (Poll Interval): The direction column of expected sequence 1.1 is not sufficient in step 5.

q) To execute expected sequence 1.2 of the Refresh test cases as intended the FDN service is required. In step 4 the SIM modifies the required files to enable the FDN service, but the ME is not informed about this, because the Refersh command is performed with the command qualifier “File change” and a file list containing EF FDN only. Therefore the ME is not aware that FDN service shall be enabled.

r) 3GPP TS 11.14, ch. 6.8 (Structure of Terminal Response) states concerning the Item Identifier included in the Terminal Response for Select Item: “[..] All other types of TERMINAL RESPONSE do not need to include Item identifier. If one is included by the ME, the SIM shall ignore it.”. Therefore an Item Identifier TLV with an arbitrary item identifier assigend by the ME manufacturer might be included in a Terminal Responses, which is sent when the user indicates a backward move or a session termination for the Select Item command.

s) 27.22.4.10.1.4.2 Procedure (Send Short Message), expected sequence 1.4: The leading space character in the message, which shall be

displayed in step 4, shall be deleted in the sequence table, because it is in contradiction to the coded message.

t) 27.22.4.10.1.4.2 Procedure (Send Short Message), expected sequence 1.5: The leading space character and the underline characters in "RP_Destination_Address" of the message, which shall be displayed in step 4, shall be deleted in the sequence table, because it is in contradiction to the coded message.

u) 27.22.4.10.1.4.2 Procedure (Send Short Message), expected sequence 1.7: The length indicated in PROACTIVE COMMAND: SEND SHORT MESSAGE 1.7.1 shall be 0x30.

v) 27.22.4.17.1(Perform Card APDU), 27.22.4.18.1 (Power Off Card) , 27.22.4.19.1 (Power On Card) , 27.22.4.20.1 (Get Reader Status): These tests require a special TestSIM or a second SIM Simulator with fixed parameters. If these are not available the tests can not be executed. Therefore these tests should also allow to use an alternative card.

w) In 27.22.4.22.2.4.2 test for Set Up Idle Mode Text with the support of icons are defined. Expected sequence 2.1A defines a test for self-explanatory basic icons with a successful outcome of the command, while expected sequence 2.1B describes the same test, but with the result "command performed successfully, but request icon could not be displayed". In expected sequence 2.3 the same test as in expected sequence 2.1A is performed, the only difference is that a colour icon is used. For expected seq. 2.3 two terminal responses are defined, one with an successful outcome of the command and one with "performed, but request icon could not be displayed. It is obvious that expected sequence 2.3 has to be splitted into 2.3A and 2.3B in the same way as in sequences 2.1A and 2.1B.

x) 27.22.6.2.4.2 Procedure (Interaction with FDN), expected sequence 3.2: The coded dialling number string in ENVELOPE CALL CONTROL 3.2.1 is "321" and not "123" as intended.

y) 27.22.6.2.4.2 Procedure (Support of BDN service), expected sequence 4.4: The coded dialling number string in ENVELOPE CALL CONTROL 4.4.1 is "9876" and not "123" as intended.

z) 27.22.6.1.4.2 Procedure (Call control by SIM), Expected sequences 1.3, 1.5 and 1.7: In these sequences a call is set up by the proactive command SET UP CALL. In contradiction to the SET UP CALL test cases these tests don't test the display of the alpha identifier and furthermore no inidication is given that the user has to confirm the call set up attempt to be able to perform this test as intended.

aa) 27.22.6.1.4.2 Procedure (Call control by SIM), Expected sequence 1.7, PROACTIVE COMMAND: SET UP CALL 1.7.1: Logical value of TON in Address TLV in contradiction to corresponding coding and last two bytes of address TLV coding are missing. CALL CONTROL RESULT 1.7.1: Incorrect coding of result data and incorrect logical value of address TLV.

bb) 27.22.6.1.4.2 Procedure (Call control by SIM), Expected sequences 1.12 is insufficient, because the second call set up is not verified at the System Simulator.

cc) 27.22.6.2.4.2: The coding of the dialling number string in ENVELOPE CALL CONTROL 3.2.1 is incorrect.

dd) 27.22.6.2.4.2: The dialling number string in ENVELOPE CALL CONTROL 4.4.1 is in contradiction to the sequence table of expected sequence 4.4.

Summary of change: ⌘

a) 27.22.2 Size coding of the colour icon in record 2 of EF(IMG) corrected

b) 27.22.4.1.1.4.2 Procedure (Display Text): Leading space character in the message in Expected Sequence 1.6, Step 4 deleted

c) 27.22.4.1.1.4.2 Procedure (Display Text): Ending greater character in the message in Expected Sequence 1.7, Step 4 inserted

d) 27.22.4.2.1.4.2 Procedure (Get Inkey): Ending space character in the message in Expected Sequence 1.6, Step 4 deleted

e) 27.22.4.2.7.4.2 Procedure (Get Inkey): Result TLV value coding in TERMINAL RESPONSE: GET INKEY 7.1.2 corrected.

f) TERMINAL RESPONSE: GET INPUT 1.1.1 and TERMINAL RESPONSE: GET INPUT 1.10.1: Command qualifier corrected

g) 27.22.4.3.1.4.2 Procedure (Get Input): Leading space character in the message in Expected Sequence 1.2, Step 4 deleted

h) 27.22.4.3.1.4.2 Procedure (Get Input): Step 6 of expected sequence 1.3 deleted and the comment “The ME may echo the input” in step 5 inserted

i) 27.22.4.3.1.4.2 Procedure (Get Input), Expected sequence 1.4: Step 6 adjusted. Comment to step 5 inserted to enforce a check that during the input the entered characters itself are not revealed.

j) 27.22.4.3.1.4.2 Procedure (Get Input), Expected sequence 1.5 adjusted to reflect different handling of input with incorrect length dependent on the ME.

k) 27.22.4.3.1.4.2 Procedure (Get Input), Expected sequence 1.10, step 4: The range of the expected response length in the sequence table adjusted to 1-5 characters

l) 27.22.4.3.3.4.2: The the command qualifier in PROACTIVE COMMAND: GET INPUT 3.1.1, PROACTIVE COMMAND: GET INPUT 3.2.1, TERMINAL RESPONSE: GET INPUT 3.1.1 and TERMINAL RESPONSE: GET INPUT 3.2.1 are corrected to allow the input of characters from the alphabet set.In step 5 of expected sequence the user shall now enter the input “HELLO”.

m) 27.22.4.3.4.4.2 Procedure (Get Input): Last character in the message in expected sequence 4.2, step 4 deleted

n) 27.22.4.3.5.4.2 Procedure (Get Input): Coding of PROACTIVE COMMAND: GET INPUT 5.2.1 corrected

o) 27.22.4.3.6.4.2 TERMINAL RESPONSE: GET INPUT 6.1.1A: Coding of the command qualifier byte corrected

p) 27.22.4.6.4.2 Procedure (Poll Interval): Expected Sequence 1.1, step 5: Direction column adjusted

q) To be able to perform expected sequence 1.2 in ch. 27.22.4.7.1.4.2 the step 4 is deleted and the corresponding initial conditions clause (27.22.4.7.1.4.1) is enhanced by the comment that for expected sequence 1.2 the FDN service shall be enabled.

r) In expected Sequence 1.4 the sequence table is adjusted to allow the

inclusion of an Item Identifier TLV in a Terminal Response for Select Item if a backward move or a session termination was indicated by the user. The additionaly required Terminal Responses are inserted.

s) 27.22.4.10.1.4.2 Procedure (Send Short Message), expected sequence 1.4: Leading space character in the message in step 4 deleted

t) 27.22.4.10.1.4.2 Procedure (Send Short Message), expected sequence 1.5: Leading space and the underline characters in the message in step 4 deleted

u) 27.22.4.10.1.4.2 Procedure (Send Short Message), expected sequence 1.7: Length in PROACTIVE COMMAND: SEND SHORT MESSAGE 1.7.1 set to 0x30.

v) 27.22.4.17.1(Perform Card APDU), 27.22.4.18.1 (Power Off Card) , 27.22.4.19.1 (Power On Card) , 27.22.4.20.1 (Get Reader Status): Statement added to allow the usage of an alternative card

w) In 27.22.4.22.2.4.2 Expected seq. 2.3 splitted into expected sequence 2.3A and 2.3B, corresponding to expected sequences 2.1A and 2.1B.

x) 27.22.6.2.4.2 Procedure (Interaction with Fixed Dialling Numbers), expected sequence 3.2: Coded dialling number string in ENVELOPE CALL CONTROL 3.2.1 correted to “123”

y) 27.22.6.2.4.2 Procedure (Support of BDN service), expected sequence 4.4: The coded dialling number string in ENVELOPE CALL CONTROL corrected to “123”.

z) 27.22.6.1.4.2 Procedure (Call control by SIM), Expected sequences 1.3, 1.5 and 1.7: The sequences are enhanced to test the display of the alpha identifier and to instruct the user that a call set up attempt has to be confirmed during the user confirmation phase.

aa) 27.22.6.1.4.2 Procedure (Call control by SIM), Expected sequence 1.7, PROACTIVE COMMAND: SET UP CALL 1.7.1: Logical value of TON corrected and last two bytes of address TLV coding added. CALL CONTROL RESULT 1.7.1: Surplus byte deleted

bb) 27.22.6.1.4.2 Procedure (Call control by SIM), Expected sequences 1.12 enhanced to ensure that the System Simulator tests if the second call set up is performed successfully.

cc) 27.22.6.2.4.2: Coding of the dialling number string in ENVELOPE CALL CONTROL 3.2.1 corrected

dd) 27.22.6.2.4.2: The dialling number string in ENVELOPE CALL CONTROL 4.4.1 adjusted

Consequences if not approved: ⌘

a) ME’s will fail the tests with colour icons, because the icons cannot be displayed due to incorrect coding.

b) Missmatch between coded and expected text on the ME’s display will lead to a failed test.

c) Missmatch between coded and expected text on the ME’s display will lead to a failed test.

d) Missmatch between coded and expected text on the ME’s display will lead to a failed test.

e) MEs will fail the test due to incorrect coding of expected data.

f) MEs will fail the tests due to incorrect coding of expected data.

g) Missmatch between coded and expected text on the ME's display will lead to a failed test.

h) A ME that does not echo the user's input would fail the test, though it acts according to the requirements defined in 3GPP TS 11.14.

i) 27.22.4.2.1.4.2 Procedure (Get Inkey), Expected sequence 1.4 would allow to pass the test even if during the input the entered characters are revealed.

j) MEs will fail the test in 27.22.4.2.1.4.2 Procedure (Get Inkey), Expected sequence 1.5 due to different handling of input with incorrect length.

k) Missmatch between sequence table and coding

l) The tests defined in expected sequences 3.1 and 3.2 in 27.22.4.3.3.4.2 can't be performed, because the required response data can't be entered due to a different input character set. Additionally the data that shall be entered in expected sequence 3.2 differs from the data in TERMINAL RESPONSE GET INPUT 3.2.1.

m) Missmatch between coded and expected text on the ME's display will lead to a failed test.

n) Missmatch between coded and expected text on the ME's display will lead to a failed test.

o) MEs will fail the test, because expected data and the data returned in the Terminal Response will differ.

p) Sequence table would not in the same format as in other test

q) Expected sequence 1.2 in ch. 27.22.4.7.1.4.2 can't be performed correctly, because an enabled FDN service can't be guaranteed.

r) MEs, which include an Item Identifier TLV in a Terminal Response for Select Item if a backward move or a session termination was indicated by the user, would fail the test in contradiction to 3GPP TS 11.14.

s) Missmatch between coded and expected text on the ME's display will lead to a failed test.

t) Missmatch between coded and expected text on the ME's display will lead to a failed test.

u) 27.22.4.10.1.4.2 Procedure (Send Short Message), expected sequence 1.7 can't be performed correctly, because the coding of PROACTIVE COMMAND: SEND SHORT MESSAGE 1.7.1 is incorrect.

v) Tests with a second card reader can only be performed with a special test SIM with fixed data. The tests are not flexible enough to permit a test execution with different SIMs. If the currently defined card is not available the test can only be performed with the assistance of a second SIM Simulator.

w) MEs that are not able to display a colour icon indicated in SET UP IDLE MODE TEXT will fail the test, because the result "command performed,

but requested icon could not be displayed" is not allowed in the sequence table of expected seq. 2.3. Furthermore this test is not in the format as in seq. 2.1A and 2.1B.

x) MEs will fail the test, because the coding of the ENVELOPE sent by the MEs will differ from the expected one.

y) MEs will fail the test, because the coding of the ENVELOPE sent by the MEs will differ from the expected one.

z) 27.22.6.1.4.2 Procedure (Call control by SIM), Expected sequences 1.3, 1.5 and 1.7: The tests would be insufficient and MEs not performing the user confirmation phase correctly would be able to pass these tests.

aa) 27.22.6.1.4.2: Test defined in expected sequence 1.7 cannot be executed correctly due to incorrect coding of PROACTIVE COMMAND: SET UP CALL 1.7.1 and CALL CONTROL RESULT 1.7.1.

bb) 27.22.6.1.4.2 Expected sequences 1.12 will be insufficient, because the second call set up is not verified at the System Simulator

cc) MEs will fail the test due to incorrect coding of the expected data.

dd) MEs will fail the test in 27.22.6.2.4.2, Expected sequences 4.4, because the data in ENVELOPE CALL CONTROL 4.4.1 differs from the expected data, which results from the test sequence.

Clauses affected:	⌘	27.22.2, 27.22.4.1.1.4.2, 27.22.4.2.1.4.2, 27.22.4.2.7.4.2, 27.22.4.3.1.4.2, 27.22.4.3.3.4.2, 27.22.4.3.4.4.2, 27.22.4.3.5.4.2, 27.22.4.3.6.4.2, 27.22.4.6.4.2, 27.22.4.7.1.4.1, 27.22.4.7.1.4.2, 27.22.4.9.1.4.2, 27.22.4.10.1.4.2, 27.22.4.17.1.4.1, 27.22.4.18.1.4.1, 27.22.4.19.1.4.1, 27.22.4.20.1.4.1, 27.22.4.22.2.4.2, 27.22.6.1.4.2, 27.22.6.2.4.2			
		Y	**N**		
Other specs affected:	⌘		**N**	Other core specifications	⌘
			N	Test specifications	
			N	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

27.22.2 Definition of default values for SIM Application Toolkit testing

[..]

EF_{Img} (Image, 4F20)

Record 1:

Logically:

Number of Actual Images Instances: 01
Image Instance Width: 08
Image Instance Height: 08
Image Coding Scheme: 11 (basic image)
Image Instance File Identifier: 4F 04 ($EF_{Instance}$)
Offset into Image Instance File: 00 00
Length of Image Instance Data: 00 0A

Coding:

BER-TLV:	01	08	08	11	4F	04	00	00	00	0A	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 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($EF_{Instance}$)
Offset into Image Instance File: 00 00
Length of Image Instance Data: 00 1F

Coding:

BER-TLV:	01	~~2E~~08	~~28~~08	21	4F	02	00	00	00	1F	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 3:

Logically:

Number of Actual Images Instances: 01
Image Instance Width: 18
Image Instance Height: 10
Image Coding Scheme: 11 (basic image)
Image Instance File Identifier: 4F 03 ($EF_{Instance}$)
Offset into Image Instance File: 00 00
Length of Image Instance Data: 00 32

Coding:

BER-TLV:	01	18	10	11	4F	03	00	00	00	32	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF				

Record 4:

Logically:

Number of Actual Images Instances: 01
Image Instance Width: 2E
Image Instance Height: 28
Image Coding Scheme: 11 (basic image)

Image Instance File Identifier: 4F 01 ($EF_{Instance}$)
Offset into Image Instance File: 00 00
Length of Image Instance Data: 00 E8

Coding:

BER-TLV:	01	2E	28	11	4F	01	00	00	00	E8	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 ($EF_{Instance}$)
Offset into Image Instance File: 00 00
Length of Image Instance Data: 00 08

Coding:

BER-TLV:	01	05	05	11	4F	05	00	00	00	08	FF	FF
	FF	FF	FF	FF	FF	FF						

27.22.4.1.1.4.2 Procedure

[..]

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				

[..]

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								

[..]

27.22.4.2.1.4.2 Procedure

[..]

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

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

PROACTIVE COMMAND: GET INKEY 1.6.1

Logically:

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

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

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

Coding:

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

[..]

27.22.4.2.7.4.2 Procedure

Expected Sequence 7.1 (GET INKEY, help information available)

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

[..]

PROACTIVE COMMAND: GET INKEY 7.1.2

Logically:

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

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

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

Coding:

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

TERMINAL RESPONSE: GET INKEY 7.1.2

Logically:

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

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

Result
- General Result: Command performed successfully

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

Coding:

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

27.22.4.3.1.4.2 Procedure

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

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

PROACTIVE COMMAND: GET INPUT 1.1.1

Logically:

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

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

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

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

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

TERMINAL RESPONSE: GET INPUT 1.1.1

Logically:

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

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

Result
- General Result: Command performed successfully

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

Coding:

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

[..]

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

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

PROACTIVE COMMAND: GET INPUT 1.2.1

Logically:

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

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

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

Response length
- Minimum length: 5

Maximum length: 5

Coding:

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

[..]

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.3.1	[character set, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter AbCdE"	Range of expected length is 5-5 Text string coding in unpacked format
5	USER → ME	Enter the input "AbCdE" and completion	The ME may echo the input
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.3.1~~Echo " AbCdE"~~	[command performed successfully]
~~7~~	~~ME → SIM~~	~~TERMINAL RESPONSE: GET INPUT 1.3.1~~	~~[command performed successfully]~~

PROACTIVE COMMAND: GET INPUT 1.3.1

Logically:

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

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

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

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

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

[..]

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

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

PROACTIVE COMMAND: GET INPUT 1.4.1

Logically:

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

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

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

Response length
- Minimum length: 4
- Maximum length: 8

Coding:

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

[..]

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

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

[..]

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.10.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.10.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help info available]
4	ME → USER	Request for input	Range of expected length is ~~0~~1-5 Null Text string
5	USER → ME	Enter the input "12345" and completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.10.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.10.1

Logically:

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

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

Text string
- Text: length null (00).

Response length
- Minimum length: 1
- Maximum length: 5

Coding:

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

TERMINAL RESPONSE: GET INPUT 1.10.1

Logically:

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

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

Result
- General Result: Command performed successfully

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

Coding:

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

[..]

27.22.4.3.3.4.2 Procedure

Expected Sequence 3.1 (GET INPUT, text string coding in UCS2, successful)

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

PROACTIVE COMMAND: GET INPUT 3.1.1

Logically:

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

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

Text String

Data coding scheme: 16 bit data UCS2 alphabet format
Text: " ЗДРАВСТВУЙТЕ "
Response length
Minimum length: 5
Maximum length: 5

Coding:

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

TERMINAL RESPONSE: GET INPUT 3.1.1

Logically:

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

Coding:

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

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

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

PROACTIVE COMMAND: GET INPUT 3.2.1

Logically:

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

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

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

Response length
- Minimum length: 5
- Maximum length: 5

Coding:

BER-TLV:	D0	81	9D	81	03	01	23	0~~0~~1	82	02	81	82
	8D	81	8D	08	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	04	22	04	15	04	17	04	14	04	20	04	10
	04	12	04	21	04	22	04	12	04	23	04	19
	91	02	05	05								

TERMINAL RESPONSE: GET INPUT 3.2.1

Logically:

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

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

Result
- General Result: Command performed successfully

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

Coding:

BER-TLV:	81	03	01	23	0~~0~~1	82	02	82	81	83	01	00
	8D	06	04	48	45	4C	4C	4F				

27.22.4.3.4.4.2 Procedure

[..]

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

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

PROACTIVE COMMAND: GET INPUT 4.2.1

Logically:

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

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

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

Response length
- Minimum length: 5
- Maximum length: No maximum length requirement

Coding:

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

27.22.4.3.5.4.2 Procedure

[..]

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 5.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 5.2.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "Enter:" Display default text input: "***1111111111###***2222222222###***3333333333###***4444444444###***5555555555###***6666666666###***7777777777###***8888888888###***9999999999###***0000000000###"	Range of expected length is 5-5 Text string coding in unpacked format Default text length 160 bytes coding in unpacked format
5	USER → ME	Completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 5.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 5.2.1

Logically:

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

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

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

Response length
- Minimum length: 160
- Maximum length: 160

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

Coding:

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

[..]

27.22.4.3.6.4.2 Procedure

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

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

PROACTIVE COMMAND: GET INPUT 6.1.1

Logically:

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

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

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

Response length
- Minimum length: 0
- Maximum length: 10

Icon Identifier
- Icon qualifier: self-explanatory
- Icon identifier: 1 (number of record in EF_{Img})

Coding:

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

TERMINAL RESPONSE: GET INPUT 6.1.1A

Logically:

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

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

Result
- General Result: Command performed successfully

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

Coding:

BER-TLV:	81	03	01	23	040	82	02	82	81	83	01	00
	8D	02	04	2B								

27.22.4.6.4.2 Procedure

Expected Sequence 1.1 (POLL INTERVAL, Seconds)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POLL INTERVAL 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POLL INTERVAL 1.1.1	[Duration: 20 seconds]
4	ME → SIM	TERMINAL RESPONSE: POLL INTERVAL 1.1.1	[Command performed successfully]
5	ME → SIM	ME polls in intervals of 20 seconds	

[..]

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_{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
Dialled number: 123
CCI: None
Ext2: None

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

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

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

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

27.22.4.7.1.4.2 Procedure

[..]

Expected Sequence 1.2 (REFRESH, File Change Notification)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: REFRESH 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: REFRESH 1.2.1	
4	SIM	Update EF FDN RECORD 1~~Invalidate EF IMSI, EF LOCI and EF AND~~	[EF FDN record 1 updated to contain the dialling string "0123456789"]~~[Restricted dialling feature is enabled]~~
5	ME → SIM~~SIM~~	READ RECORD: EF FDN~~Update EF FDN RECORD 1~~	~~[EF FDN record 1 updated to contain the dialling string "0123456789"]~~
6	ME → SIM~~ME → SIM~~	TERMINAL RESPONSE: REFRESH 1.2.1A Or TERMINAL RESPONSE: REFRESH 1.2.1B~~READ RECORD: EF FDN~~	[normal ending] [additional EFs read]
7	SIM → ME~~ME → SIM~~	PROACTIVE SIM SESSION ENDED~~TERMINAL RESPONSE: REFRESH 1.2.1A~~ ~~Or~~ ~~TERMINAL RESPONSE: REFRESH 1.2.1B~~	~~[normal ending]~~ ~~[additional EFs read]~~
8	USER → ME~~SIM → ME~~	Call setup to "123"~~PROACTIVE SIM SESSION ENDED~~	
9	ME → USER~~USER → ME~~	Call set up not allowed~~Call setup to "123"~~	
10	USER → ME~~ME → USER~~	Call setup to "0123456789"~~Call set up not allowed~~	
11	ME → SS~~USER → ME~~	Setup~~Call setup to "0123456789"~~	Called party BCD number shall be "0123456789"
~~12~~	~~ME → SS~~	~~Setup~~	~~Called party BCD number shall be "0123456789"~~

PROACTIVE COMMAND: REFRESH 1.2.1

Logically:

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

Device identities
- Source device: SIM
- Destination device: ME
- File List: EF FDN

Coding:

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

[..]

27.22.4.9.1.4.2 Procedure

[..]

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

Step	Direction	MESSAGE / Action	Comments
~~20~~01	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.4.1	~~t~~
02~~21~~	ME → SIM	FETCH	
03~~22~~	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.4.1	
04~~23~~	ME → USER	Present the items of "One" and "Two" under the header of "Select Item".	
05~~24~~	USER → ME	Indicate to go backwards in the proactive SIM application session.	
06~~25~~	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.4.1A or TERMINAL RESPONSE: SELECT ITEM 1.4.1B	Backward move in the proactive SIM application session requested by user
07~~26~~	SIM → ME	PROACTIVE COMMAND PENDING: SELECT ITEM 1.4.2	
08~~27~~	ME → SIM	FETCH	
09~~28~~	SIM → ME	PROACTIVE COMMAND: SELECT ITEM 1.4.2	
~~29~~10	ME → USER	Present the items of "One" and "Two" under the header of "Select Item".	
11~~30~~	USER → ME	Indicate to end the proactive SIM application and return the ME to normal operation.	
12~~31~~	ME → SIM	TERMINAL RESPONSE: SELECT ITEM 1.4.2A or TERMINAL RESPONSE: SELECT ITEM 1.4.2B	Proactive SIM application terminated by the user
13~~32~~	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND: SELECT ITEM 1.4.1 and 1.4.2

Logically:

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

Device identities
- Source device: SIM
- Destination device: ME
- Alpha identifier: "Select Item"

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

Item
- Identifier of item: "12"

Text string of item: "Two"

Coding:

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

TERMINAL RESPONSE: SELECT ITEM 1.4.1A

Logically:

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

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

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

Coding:

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

TERMINAL RESPONSE: SELECT ITEM 1.4.1B

Logically:

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

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

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

Item identifier
- Identifier of item chosen: XX

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	11
	90	01	XX									

TERMINAL RESPONSE: SELECT ITEM 1.4.2A

Logically:

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

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

Result

General Result: proactive SIM session terminated by the user

Coding:

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

TERMINAL RESPONSE: SELECT ITEM 1.4.2B

Logically:

Command details
Command number: 1
Command type: SELECT ITEM
Command qualifier: "00"
Device identities
Source device: ME
Destination device: SIM
Result
General Result: proactive SIM session terminated by the user
Item identifier
Identifier of item chosen: XX

Coding:

BER-TLV:	81	03	01	24	00	82	02	82	81	83	01	10
	90	01	XX									

[..]

27.22.4.10.1.4.2 Procedure

[..]

Expected Sequence 1.4 (SEND SHORT MESSAGE, packing required, 8 bit data, message of 160 bytes, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.4. 1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.4.1	[packing required, 8 bit data]
4	ME → USER	Display "-The address data object holds the RP_Destination_Address "	[Alpha Identifier]
5	ME → SS	Send SMS-PP "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"	[message of 160 bytes]
6	SS → ME	SMS RP-ACK	
7	ME → SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.4.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.4.1

Logically:

- Command details
  - Command number: 1
  - Command type: SEND SHORT MESSAGE
  - Command qualifier: packing required
- Device identities
  - Source device: SIM
  - Destination device: Network
  - Alpha identifier: "The address data object holds the RP_Destination_Address"
- Address
  - TON: International number
  - NPI: "ISDN / telephone numbering plan"
  - Dialling number string "112233445566778"
- SMS TPDU
  - TP-MTI SMS-SUBMIT
  - TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
  - TP-VPF TP-VP field not present
  - TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
  - TP-UDHI The TP-UD field contains only the short message
  - TP-SRR A status report is not requested
  - TP-MR "00"
  - TP-DA
    - TON International number
    - NPI "ISDN / telephone numbering plan"
    - Address value "012345678"
  - TP-PID Short message type 0
  - TP-DCS
    - Message coding 8 bit data
    - Message class class 0
  - TP-UDL 160
  - TP-UD "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

BER-TLV:	D0	81	FD	81	03	01	13	01	82	02	81	83
	85	38	54	68	65	20	61	64	64	72	65	73
	73	20	64	61	74	61	20	6F	62	6A	65	63
	74	20	68	6F	6C	64	73	20	74	68	65	20
	52	50	11	44	65	73	74	69	6E	61	74	69
	6F	6E	11	41	64	64	72	65	73	73	86	09
	91	11	22	33	44	55	66	77	F8	8B	81	AC
	01	00	09	91	10	32	54	76	F8	40	F4	A0
	54	77	6F	20	74	79	70	65	73	20	61	72
	65	20	64	65	66	69	6E	65	64	3A	20	2D
	20	41	20	73	68	6F	72	74	20	6D	65	73
	73	61	67	65	20	74	6F	20	62	65	20	73
	65	6E	74	20	74	6F	20	74	68	65	20	6E
	65	74	77	6F	72	6B	20	69	6E	20	61	6E
	20	53	4D	53	2D	53	55	42	4D	49	54	20
	6D	65	73	73	61	67	65	2C	20	6F	72	20
	61	6E	20	53	4D	53	2D	43	4F	4D	4D	41
	4E	44	20	6D	65	73	73	61	67	65	2C	20
	77	68	65	72	65	20	74	68	65	20	75	73
	65	72	20	64	61	74	61	20	63	61	6E	20
	62	65	20	70	61	73	73	65	64	20	74	72
	61	6E	73	70								

[..]

Expected Sequence 1.5 (SEND SHORT MESSAGE, packing not required, SMS default alphabet, message of 160 bytes, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.5.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "-The address data object holds the RP– Destination– Address "	[Alpha Identifier]
5	ME → SS	Send SMS-PP "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"	[message of 160 bytes]
6	SS → ME	SMS RP-ACK	
7	ME → SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.5.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing not required

Device identities
- Source device: SIM
- Destination device: Network
- Alpha identifier: "The address data object holds the RP Destination Address"

Address
- TON: International number
- NPI: "ISDN / telephone numbering plan"
- Dialling number string "112233445566778"

SMS TPDU
- TP-MTI SMS-SUBMIT
- TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
- TP-VPF TP-VP field not present
- TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
- TP-UDHI The TP-UD field contains only the short message
- TP-SRR A status report is not requested
- TP-MR "00"
- TP-DA
  - TON International number
  - NPI "ISDN / telephone numbering plan"
  - Address value "012345678"
- TP-PID Short message type 0
- TP-DCS
  - Message coding SMS default alphabet
  - Message class class 0
- TP-UDL 160
- TP-UD "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

BER-TLV:	D0	81	E9	81	03	01	13	00	82	02	81	83
	85	38	54	68	65	20	61	64	64	72	65	73
	73	20	64	61	74	61	20	6F	62	6A	65	63
	74	20	68	6F	6C	64	73	20	74	68	65	20
	52	50	20	44	65	73	74	69	6E	61	74	69
	6F	6E	20	41	64	64	72	65	73	73	86	09
	91	11	22	33	44	55	66	77	F8	8B	81	98
	01	00	09	91	10	32	54	76	F8	40	F0	A0
	D4	FB	1B	44	CF	C3	CB	73	50	58	5E	06
	91	CB	E6	B4	BB	4C	D6	81	5A	A0	20	68
	8E	7E	CB	E9	A0	76	79	3E	0F	9F	CB	20
	FA	1B	24	2E	83	E6	65	37	1D	44	7F	83
	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28	ED
	06	85	DD	A0	69	73	DA	9A	56	85	CD	24
	15	D4	2E	CF	E7	E1	73	99	05	7A	CB	41
	61	37	68	DA	9C	B6	86	CF	66	33	E8	24
	82	DA	E5	F9	3C	7C	2E	B3	40	77	74	59
	5E	06	D1	D1	65	50	7D	5E	96	83	C8	61
	7A	18	34	0E	BB	41	E2	32	08	1E	9E	CF
	CB	64	10	5D	1E	76	CF	E1				

[..]

Expected Sequence 1.7(SEND SHORT MESSAGE, alpha identifier length '00', packing not required, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.7.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.7.1	[packing not required, 8-bit data]
4	ME	No information to user	[Alpha identifier length '00']
5	ME → SS	Send SMS-PP "Test Message"	
6	SS → ME	SMS RP-ACK	
7	ME → SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.7.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.7.1

Logically:

Command details
- Command number: 1
- Command type: SEND SHORT MESSAGE
- Command qualifier: packing not required

Device identities
- Source device: SIM
- Destination device: Network
- Alpha identifier:

Address
- TON: International number
- NPI: "ISDN / telephone numbering plan"
- Dialling number string "112233445566778"

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

TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345678"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

BER-TLV:	D0	3~~7~~0	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										

[..]

27.22.4.17.1 PERFORM CARD APDU (normal)

[..]

27.22.4.17.1.3 Test purpose

To verify that the ME sends an APDU command to the additional card identified in the PERFORM CARD APDU proactive SIM command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the SIM.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

In this particular case a special Test-SIM (TestSIM) with T=0 protocol is chosen as additional card for the additional ME card reader (for coding of the TestSIM see annex D).

27.22.4.17.1.4 Method of test

27.22.4.17.1.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The TestSIM is inserted in the additional ME card reader.

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

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

The elementary files of the TestSIM are coded as defined in annex D. Another card with different parameters may be used as TestSIM to execute these tests. In this case the SIM Simulator shall take into account the corresponding response data.

27.22.4.18.1 POWER OFF CARD (normal)

[..]

27.22.4.18.1.3 Test purpose

To verify that the ME closes a session with the additional card identified in the POWER OFF CARD proactive SIM command, and successfully returns result in the TERMINAL RESPONSE command send to the SIM.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

27.22.4.18.1.4 Method of test

27.22.4.18.1.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The ME card reader is connected to the second SIM Simulator (SIM2). Instead of the second SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the SIM Simulator shall take into account the corresponding response data.

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

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

Prior to this test the ME shall have powered on the second SIM Simulator (SIM2).

27.22.4.19.1 POWER ON CARD (normal)

[..]

27.22.4.19.1.3 Test purpose

To verify that the ME starts a session with the additional card identified in the POWER ON CARD proactive SIM command, and successfully returns the Answer To Reset within the TERMINAL RESPONSE command send to the SIM.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

27.22.4.19.1.4 Method of test

27.22.4.19.1.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The ME card reader is connected to the second SIM Simulator (SIM2). Instead of the second SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the SIM Simulator shall take into account the corresponding response data.

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

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

27.22.4.20.1 GET READER STATUS (normal)

[..]

27.22.4.20.1.3 Test purpose

To verify that the ME sends starts a session with the additional card identified in the GET CARD READER STATUS proactive SIM command, and successfully returns information about all interfaces to additional card reader(s) in the TERMINAL RESPONSE command send to the SIM.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

In this test case the second SIM-Simulator (SIM2) shall response with the ATR "3B 00".

27.22.4.20.1.4 Method of test

27.22.4.20.1.4.1 Initial conditions

The ME shall support the Proactive SIM: Get Card Reader Status (Card Reader Status) facility. The ME is connected to the SIM Simulator.

The ME card reader is connected to the second SIM Simulator (SIM2). Instead of the second SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the SIM Simulator shall take into account the corresponding response data.

The elementary files are coded as SIM Application Toolkit default.

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

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

Prior to this test the ME shall have powered on the second SIM Simulator (SIM2).

27.22.4.22.2.4.2 Procedure

[..]

Expected Sequence 2.3A (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.3.1	[Icon is self-explanatory]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1A	[command performed successfully] ~~[requested icon could not be displayed]~~
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display ~~"Idle text"~~the icon	

PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1

Logically:

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

Device identities
- Source device: SIM
- Destination device: ME
- Text String: "Idle text"

Icon identifier
- Icon qualifier: icon is self-explanatory
- Icon identifier: <record 2 in EF IMG>

Coding:

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

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1A

Logically:

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

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

Result
- General Result: Command performed successfully

Coding:

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

Expected Sequence 2.3B (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 2.3.1	[Icon is self-explanatory]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP IDLE MODE TEXT 2.3.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.1B	[requested icon could not be displayed]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	USER → ME	Select idle screen	Only if idle screen not already available
7	ME → USER	Display “Idle text” without the icon	

TERMINAL RESPONSE: SET UP IDLE MODE TEXT 2.3.~~2~~1B

Logically:

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

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

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

Coding:

BER-TLV:	81	03	01	28	00	82	02	82	81	83	01	04

27.22.6.1.4.2 Procedure

[..]

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: SET UP CALL 1.3.1 PENDING	
2	ME→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[Set up call to "+012340123456"]
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6~~4~~	ME □ SIM	ENVELOPE CALL CONTROL 1.3.1	
~~5~~7	SIM → ME	9F 02	
8~~6~~	ME → SIM	GET RESPONSE	
~~7~~9	SIM → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
10~~8~~	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]
11~~9~~	ME → SS	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: "+012340123456"

Address
- TON: International
- NPI: "ISDN / telephone numbering plan"
- Dialling number string "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

ENVELOPE CALL CONTROL 1.3.1

Logically:

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

Address
- TON: International
- NPI: "ISDN / telephone numbering plan" or "unknown"
- Dialling number string "012340123456"

Location Information
- MCC & MNC the mobile country and network code (F110)
- LAC the location Area Code (1)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	16	02	02	82	81	06	07	91	10	32
	04	21	43	65	13	07	00	F1	10	00	01
	00	01									

CALL CONTROL RESULT 1.3.1

Logically:

Call control result : '00' = Allowed, no modification

Coding:

BER-TLV:	00	00

TERMINAL RESPONSE: SET UP CALL 1.3.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: Only if not currently busy on another call

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

Result
- General Result: Command performed successfully

Coding:

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

[..]

Expected Sequence 1.5 (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, not allowed)

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1 PENDING	
2	ME→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1	[Set up call to "+012340123456"
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6~~4~~	ME → SIM	ENVELOPE CALL CONTROL 1.5.1	
7~~5~~	SIM → ME	9F 02	
8~~6~~	ME → SIM	GET RESPONSE	
9~~7~~	SIM → ME	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"]
10~~8~~	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.5.1	Permanent Problem - Interaction with Call Control by SIM]
11~~9~~	ME → SS	The ME does not set up the call	

PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: Only if not currently busy on another call

Device identities
- Source device: SIM
- Destination device: Network

Alpha identifier: "+012340123456"

Address
- TON: International
- NPI: "ISDN / telephone numbering plan"
- Dialling number string "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

ENVELOPE CALL CONTROL 1.5.1

Logically:

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

Address
- TON: International
- NPI: "ISDN / telephone numbering plan" or "unknown"
- Dialling number string "012340123456"

Location Information
- MCC & MNC the mobile country and network code (F110)
- LAC the location Area Code (1)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	16	02	02	82	81	06	07	91	10	32
	04	21	43	65	13	07	00	F1	10	00	01
	00	01									

CALL CONTROL RESULT 1.5.1

Logically:

Call control result: '01' = not Allowed

Coding:

BER-TLV:	01	00

TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: Only if not currently busy on another call

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

Result
- General Result: Interaction with call control by SIM or MO short message control by SIM, permanent problem
- Additional information: Action not allowed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	02	39
	01											

[..]

Expected Sequence 1.7 (CALL CONTROL BY SIM, set up call attempt resulting from a set up call proactive command, allowed with modifications)

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1 PENDING	
2	ME→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1	[Set up call to "+012340123456"]
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
~~4~~6	ME → SIM	ENVELOPE CALL CONTROL 1.7.1	
~~5~~7	SIM → ME	9F 0B	
~~6~~8	ME → SIM	GET RESPONSE	
9~~7~~	SIM → ME	CALL CONTROL RESULT 1.7.1	[Call control result: "Allowed with modifications"]
~~8~~10	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.7.1	[command performed successfully]
11~~9~~	ME → SS	The ME sets up the call to "+011111111111"	

PROACTIVE COMMAND: SET UP CALL 1.7.1

Logically:

Command details
- Command number: 1
- Command type: SET UP CALL
- Command qualifier: Only if not currently busy on another call

Device identities
- Source device: SIM
- Destination device: Network

Alpha identifier: "+012340123456"

Address
- TON: ~~N~~International
- NPI: "ISDN / telephone numbering plan" or "unknown"
- Dialling number string "012340123456"

Coding:

BER-TLV:	D0	21	81	03	01	10	00	82	02	81	83
	05	0D	2B	30	31	32	33	34	30	31	32
	33	34	35	36	86	07	91	10	32	04	21
	43	65									

ENVELOPE CALL CONTROL 1.7.1

Logically:

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

Address
- TON: International
- NPI: "ISDN / telephone numbering plan" or "unknown"
- Dialling number string "012340123456"

Location Information
- MCC & MNC the mobile country and network code (F110)
- LAC the location Area Code (1)

Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	16	02	02	82	81	06	07	91	10	32
	04	21	43	65	13	07	00	F1	10	00	01
	00	01									

CALL CONTROL RESULT 1.7.1

Logically:

Call control result: '02' = Allowed with modifications
Address
TON: Intern~~N~~ational
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "~~+~~011111111111"

Coding:

BER-TLV:	02	~~0A~~09	86	~~06~~07	~~07~~91	~~91~~10	~~10~~11	11	11	11	11
	~~11~~										

TERMINAL RESPONSE: SET UP CALL 1.7.1

Logically:

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

Coding:

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

[..]

Expected Sequence 1.12 (CALL CONTROL BY SIM , set up call through call register, allowed without modification)

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers allowed by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.2.1	
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
6	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
7	User → ME	End the call then call the last dialled number	
8	ME → SIM	ENVELOPE CALL CONTROL 1.2.1	
9	SIM → ME	9F 02	[Call control result: "Allowed, no modification"]
10	ME → SIM	GET RESPONSE	~~[Set up call to "+01234567890123456789"]~~
11	SIM → ME	CALL CONTROL RESULT 1.2.1	
12	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]

[..]

27.22.6.2.4.2 Procedure

[..]

Expected Sequence 3.2 (CALL CONTROL BY SIM , set up a call in EF_{FDN} , the SIM responds with '90 00')

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "123"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.2.1	
3	SIM → ME	90 00	
4	ME	The ME sets up the call without modification	[Set up call to "123"]

ENVELOPE CALL CONTROL 3.2.1

Logically:

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

Address
- TON Unknown
- NIP "ISDN / telephone numbering plan"
- Dialling number string "123"

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	231	F13	13
	07	00	F1	10	00	01	00	01				

[..]

Expected Sequence 4.4 (CALL CONTROL BY SIM , FDN and BDN enabled, set up a call in EF_{FDN}, Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "123"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.4.1	
3	SIM → ME	9F 0A	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 4.4.1	[Call control result: "Allowed with modifications"]
6	ME	The ME sets up the call with data sent by the SIM	[Set up call to "987654321"the ME does not re-check this modified number against the FDN list]

ENVELOPE CALL CONTROL 4.4.1

Logically:

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

Address
- TON: Unknown
- NPI: "ISDN / telephone numbering plan"
- Dialling number string: "~~9876~~123"

Location Information
- MCC & MNC: the mobile country and network code (F110)
- LAC: the location Area Code (1)
- Cell ID: Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	~~89~~21	F3~~67~~	13
	07	00	F1	10	00	01	00	01				

3GPP TSG-T3 Meeting #29
Dallas, USA, 18-21.11.2003

Tdoc ⌘T3-031010

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A058** ⌘**rev** **-** ⌘ Current version: **8.5.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ [X] ME [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	CR 11-10.4 R99: Essential corrections to 27.22.4.14 “POLLING OFF”
Source:	⌘	Ericsson L.M.
Work item code:	⌘	TEI
Date:	⌘	30/09/2003
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change: ⌘ TS 11.11 Subclause 11.2.8 states:

> A STATUS command shall be issued within all 30 second periods of inactivity on the SIM-ME interface during a call. Inactivity in this case is defined as starting at the end of the last communication or the last issued STATUS command.

However, the Test Case 27.22.4.14 verifies that the ME sends STATUS messages at frequent intervals of no longer than 30s during a call and does not take into account SIM-ME activity.

Therefore, MEs complying with 11.11 will fail this test if there is SIM-ME interface activity other than the STATUS command, which will lead to a time interval of more than 30 seconds between consecutive STATUS commands.

Summary of change: ⌘ Adjustment of expected sequence 1.1 table to ensure that the test case takes into account any SIM-ME activity during the call.

Consequences if not approved: ⌘ MEs that comply with TS 11.11 might fail test case.

Clauses affected: ⌘ 27.22.4.14.4.2

		Y	N		
Other specs Affected:	⌘		N	Other core specifications	⌘
			N	Test specifications	
			N	O&M Specifications	

Other comments: ⌘

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

27.22.4.14 POLLING OFF

27.22.4.14.1 Definition and applicability

See clause 3.2.2.

27.22.4.14.2 Conformance requirement

The ME shall support the POLLING OFF as defined in:

- 3GPP TS 11.14 [15] clause 5.2, clause 6.4.14, clause 6.6.14, clause 6.8, clause 6.11, clause 12.6 and clause 12.7.

27.22.4.14.3 Test purpose

To verify that the ME cancels the effect of any previous POLL INTERVAL commands and does not effect SIM presence detection.

27.22.4.14.4 Method of test

27.22.4.14.4.1 Initial conditions

The ME is connected to the SIM Simulator.

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

27.22.4.14.4.2 Procedure

Expected Sequence 1.1 (POLLING OFF)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POLLING INTERVAL 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POLL INTERVAL 1.1.1	Interval = 1 min
4	ME → SIM	TERMINAL RESPONSE: POLL INTERVAL 1.1.1A or TERMINAL RESPONSE: POLL INTERVAL 1.1.1B	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: POLLING OFF 1.1.2	
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: POLLING OFF 1.1.2	
8	ME → SIM	TERMINAL RESPONSE: POLLING OFF 1.1.2	[command performed successfully]
9	USER → SIM	Call to be set up	
~~10~~	~~ME → SIM~~	~~STATUS~~	~~SIM presence detection~~
101	ME→ SIM	~~Time interval~~Periods of inactivity on the SIM-ME interface shall not exceed 30 seconds	
11	USER → SIM	Call to be terminated 3 minutes after call setup	
~~12~~	~~ME → SIM~~	~~STATUS~~	~~SIM presence detection~~

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CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A059** ⌘**rev** **-** ⌘ Current version: **8.5.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	CR 11.10-4 R99: Essential corrections to Send DTMF test cases
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	19/11/2003
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	3GPP TS 11.14, cl. 6.4.24 (DTMF) defines that "This command requests the ME to send a DTMF string after a call has been successfully established either by the proactive command SET UP CALL or the user." Several Send DTMF test cases do not define that a call has to be set up prior to the execution of the Send DTMF command. Furthermore no dialling number is defined for the call set up. In consequence this will lead to problems when executing the tests, because a missmatch between the dialling number used by the user or the SIM Simulator and the number used by the System Simulator will result in an unsuccessful test execution. The numbering of expected sequences 2.1 and 2.2 shall be 2.1A and 2.2A.
Summary of change:	⌘	Sequence tables of Send DTMF test cases enhanced by a call set up initated by the user with a fixed dialling number and a call termination at the end of the tests. Sequence titles and numbering adjusted. Applicability table adjusted.
Consequences if not approved:	⌘	MEs will fail the test due to a missing call set up prior to the test or due to possible missmatch between the dialling number used by the System Simulator and the user or SIM Simulator.

Clauses affected:	⌘	3.4, 27.22.4.24.1.4. 2, 27.22.4.24.2.4.2, 27.22.4.24.3.4.2
Other specs	⌘	Y [ ] N [X] Other core specifications ⌘

affected:		**N**	Test specifications
		N	O&M Specifications
Other comments:	⌘		

How to create CRs using this form:

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1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

3.4 Applicability table

Table B.1: Applicability of tests

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
1	**PROFILE DOWNLOAD 27.22.1**	**R96**	**1**	**M**	**M**	**M**	**M**	E.1/1	
2	**Contents of the TERMINAL PROFILE command 27.22.2**	R96		M	M	M	M	E.1/1	
3	**Servicing of Proactive SIM Commands 27.22.3**	R96		M	M	M	M		
4	**DISPLAY TEXT 27.22.4.1**								
	Unpacked	R96	1.1	M	M	M	M	E.1/17	
	Screen busy	R96	1.2	M	M	M	M	E.1/17	
	high priority	R96	1.3	M	M	M	M	E.1/17	
	Packed	R96	1.4	M	M	M	M	E.1/17	
	clear after delay	R96	1.5	M	M	M	M	E.1/17	
	clear after user confirmation	R96	1.1	M	M	M	M	E.1/17	
	long text up to 160 bytes	R96	1.6	M	M	M	M	E.1/17	
	Backwards move in SIM session	R96	1.7	M	M	M	M	E.1/17	
	Session terminated by user	R96	1.8	M	M	M	M	E.1/17	
	Command not understood by ME	R96	1.9	M	M	M	M	E.1/17	
	no response from user	R96	2.1	M	M	M	M	E.1/17	
	Extension Text	R98	3.1			C106	C106	**E.1/17 AND E.1/16**	
	sustained text	R98	4.1, 4.2, 4.3, 4.4			C104	C104	E.1/17 AND E.1/65	
	Icons	R98	5.1, 5.2, 5.3			C108	C108	E.1/17	
	UCS2 display	R97	6.1		C118	C118	C118	E.1/17 AND E.1/15	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
5	**GET INKEY 27.22.4.2**								
	prompt unpacked	R96	1.1	M	M	M	M	E.1/18	
	prompt packed	R96	1.2	M	M	M	M	E.1/18	
	digits only	R96	1.1	M	M	M	M	E.1/18	
	Backwards move in SIM session	R96	1.3	M	M	M	M	E.1/18	
	Session terminated by user	R96	1.4	M	M	M	M	E.1/18	
	SMS alphabet	R96	1.5	M	M	M	M	E.1/18	
	Long text up to 160 bytes	R96	1.6	M	M	M	M	E.1/18	
	no response from user	R96	2.1	M	M	M	M	E.1/18	
	UCS2 display	R97	3.1		C118	C118	C118	E.1/18 AND E.1/15	
	UCS2 display, Long text up to 70 chars	R97	3.2		C118	C118	C118	E.1/18 AND E.1/15	
	UCS2 format of entry	R97	4.1		C105	C105	C105	E.1/18 AND E.1/14	
	"Yes/No" response	R98	5.1			M	M	E.1/18 AND E.1/60	
	Icons	R98	6.1, 6.2, 6.3, 6.4			C108	C108	E.1/18	
	Help information	R97	7.1		C107	C107	C107	E.1/18	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
6	**GET INPUT 27.22.4.3**								
	input unpacked	R96	1.1	M	M	M	M	E.1/19	
	input packed	R96	1.2	M	M	M	M	E.1/19	
	digits only	R96	1.1	M	M	M	M	E.1/19	
	SMS alphabet	R96	1.3	M	M	M	M	E.1/19	
	hidden input	R96	1.4	M	M	M	M	E.1/19	
	min / max acceptable length	R96	1.5, 1.9	M	M	M	M	E.1/19	
	Backwards move in SIM session	R96	1.6	M	M	M	M	E.1/19	
	Session terminated by user	R96	1.7	M	M	M	M	E.1/19	
	Prompt text up to 160 bytes	R96	1.8	M	M	M	M	E.1/19	
	SMS default alphabet, ME to echo text, packing not required	R96	1.9	M	M	M	M	E.1/19	
	Null length for the text string	R96	1.10	M	M	M	M	E.1/19	
	no response from user	R96	2.1	M	M	M	M	E.1/19	
	UCS2 display	R97	3.1, 3.2		C118	C118	C118	E.1/19 AND E.1/15	
	UCS2 entry	R97	4.1, 4.2		C105	C105	C105	E.1/19 AND E.1/14	
	default text for the input	R97	5.1, 5.2		M	M	M	E.1/19	
	icons	R98	6.1, 6.2, 6.3, 6.4			C108	C108	E.1/19	
	help information	R97	7.1		C107	C107	C107	E.1/19	
7	**MORE TIME 27.22.4.4**	**R96**	1.1	M	M	M	M	E.1/20	
8	**PLAY TONE 27.22.4.5**								
	play all tones	R96	1.1	M	M	M	M	E.1/21	
	display alpha	R96	1.1	M	M	M	M	E.1/21	
	user termination	R96	1.1	M	M	M	M	E.1/21	
	superimpose	R96	1.1	M	M	M	M	E.1/21	
	UCS2 display	R97	TBD					E.1/21 AND E.1/15	
	icons	R98	TBD					E.1/21	
9	**POLL INTERVAL 27.22.4.6**								
	duration	R96	1.1	M	M	M	M	E.1/22	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
10	**REFRESH 27.22.4.7**								
	SIM initialization, enabling FDN mode	R96	1.1	M	M	M	M	E.1/24	
	file change notification of FDN file	R96	1.2	M	M	M	M	E.1/24	
	SIM initialization and file change notification of PLMN	R96	1.3	M	M	M	M	E.1/24	
	SIM initialization and full file change notification, enabling FDN mode	R96	1.4	M	M	M	M	E.1/24	
	SIM reset	R96	1.5	M	M	M	M	E.1/24	
	SIM Initialization after SMS-PP data download	R96	1.6	M	M	M	M	E.1/24	
	IMSI Changing procedure	R98	2.1			M	M	E.1/24	
11	**SET UP MENU 27.22.4.8**								
	Set up, menu selection, replace and remove menu	R96	1.1	M	M	M	M	E.1/30 AND E.1/4	
	Large menu	R96	1.2	M	M	M	M	E.1/30 AND E.1/4	
	help information	R97	2.1		C107	C107	C107	E.1/30 AND E.1/4	
	next action indicator	R97	3.1		M	M	M	E.1/30	
	icons	R98	4.1, 4.2			C108	C108	E.1/30	
	soft key access	R99	5.1				C112	E.1/30 AND E.1/74	
12	**SELECT ITEM 27.22.4.9**								
	Mandatory features	R96	1.1	M	M	M	M	E.1/25	
	Large menu	R96	1.2, 1.3, 1.5,1.6	M	M	M	M	E.1/25	
	Backwards move	R96	1.4	M	M	M	M	E.1/25	
	user termination	R96	1.5	M	M	M	M	E.1/25	
	no response from user	R96	8.1	C120	C120	C120	C120	E.1/25	
	next action indicator	R97	2.1		M	M	M	E.1/25	
	default selected item	R97	3.1		M	M	M	E.1/25	
	help information	R97	4.1		C107	C107	C107		
	icons	R98	5.1, 5.2			C108	C108	E.1/25	
	Presentation style	R98	6.1, 6.2			M	M	E.1/25	
	Soft keys	R99	7.1				C112	E.1/25 AND E.1/73	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
13	**SEND SMS 27.22.4.10**								
	Packing not required	R96	1.1, 1.3 1.5	M	M	M	M	E.1/26	
	Packing required	R96	1.2, 1.4	M	M	M	M	E.1/26	
	8 bit data	R96	1.1, 1.2	M	M	M	M	E.1/26	
	SMS default alphabet	R96	1.3, 1.4, 1.5	M	M	M	M	E.1/26	
	160 bytes length	R96	1.4, 1.5	M	M	M	M	E.1/26	
	Alpha identifier	R96	1.6, 1.7, 1.8	M	M	M	M	E.1/26	
	UCS2 SMS	R97	2.1		C118	C118	C118	E.1/26 AND E.1/15	
	icons	R98	3.1, 3.2			C108	C108	E.1/26	
14	**SEND SS 27.22.4.11**								
	call forward unconditional, all bearers, successful	R96	1.1	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, Return Error	R96	1.2	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, Reject	R96	1.3	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, SS request size limit	R96	1.4	M	M	M	M	E.1/27	
	interrogate CLIR status, successful, alpha identifier limits	R96	1.5	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, null data alpha identifier	R96	1.6	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, icon support	R98	2.1, 2.2, 2.3, 2.4			C108	C108	E.1/27	
	UCS2 display	R97	3.1		C118	C118	C118	E.1/27 AND E.1/15	
15	**SEND USSD 27.22.4.12**								
	7-bit data, successful	R96	1.1	M	M	M	M	E.1/28	
	8-bit data, successful	R96	1.2	M	M	M	M	E.1/28	
	UCS2 data, successful	R96	1.3	M	M	M	M	E.1/28	
	7-bit data, unsuccessful	R96	1.4	M	M	M	M	E.1/28	
	7-bit data, unsuccessful	R96	1.5	M	M	M	M	E.1/28	
	256 octets, 7-bit data, successful, long alpha identifier	R96	1.6	M	M	M	M	E.1/28	
	7-bit data, successful, no alpha identifier	R96	1.7	M	M	M	M	E.1/28	
	7-bit data, successful, null length alpha identifier	R96	1.8	M	M	M	M	E.1/28	
	icons	R98	2.1, 2.2, 2.3, 2.4			C108	C108	E.1/28	
	UCS2	R97	3.1		C118	C118	C118	E.1/28 AND E.1/15	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
16	**SET UP CALL 27.22.4.13**								
	Call confirmed by the user and connected	R96	1.1	M	M	M	M	E.1/29	
	call rejected by the user	R96	1.2	M	M	M	M	E.1/29	
	redial	R96	1.3	C119	C119	C119	C119	E.1/29	
	putting all other calls on hold, ME busy	R96	1.4	M	M	M	M	E.1/29	
	disconnecting all other calls, ME busy	R96	1.5	M	M	M	M	E.1/29	
	only if not currently busy on another call, ME busy	R96	1.6	M	M	M	M	E.1/29	
	putting all other calls on hold, call hold is not allowed	R96	1.7	M	M	M	M	E.1/29	
	Capability configuration	R96	1.8	C101	C101	C101	C101	E.1/29	
	long dialling number string	R96	1.9	M	M	M	M	E.1/29	
	long first alpha identifier	R96	1.10	M	M	M	M	E.1/29	
	Called party subaddress	R96	1.11	M	M	M	M	E.1/29	
	maximum duration for the redial mechanism	R96	1.12	C119	C119	C119	C119	E.1/29	
	second alpha identifier	R98	2.1			M	M	E.1/29 AND E.1/63	
	UCS2 Display	R97	TBD					E.1/29 AND E.1/15	
	icons	R98	3.1,3.2, 3.3, 3.4			C108	C108	E.1/29	
17	**POLLING OFF 27.22.4.14**	**R96**	1.1	M	M	M	M	E.1/23	
18	**PROVIDE LOCAL INFO 27.22.4.15**								
	location information	R96	1.1	M	M	M	M	E.1/31	
	IMEI	R96	1.2	M	M	M	M	E.1/31	
	network measurement results and BCCH channel list	R98	1.3			M	M	E.1/32 AND E.1/67	
	Date, time and time zone	R98	1.4			M	M	E.1/59	
	language setting	R99	1.5				M	E.1/68	
	Timing advance	R99	1.6				M	E.1/69	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
19	**SET UP EVENT LIST 27.22.4.16**								
	Set up call connected event	R97	1.1		M	M	M	E.1/33 AND E.1/35	
	Replace by new event list	R97	1.2		M	M	M	E.1/33 AND E.1/35 AND E.1/36	
	Remove event	R97	1.3		M	M	M	E.1/33 AND E.1/35	
	Remove Event on ME Power Cycle	R97	1.4		M	M	M	E.1/33 AND E.1/35	
20	**PERFORM CARD APDU 27.22.4.17**								
	Additional card inserted, Select MF and Get Response	R98	1.1			C109	C109	E.1/51	
	Additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN	R98	1.2			C109	C109	E.1/51	
	Additional card inserted, card powered off	R98	1.3			C109	C109	E.1/51	
	No card inserted, card powered off	R98	1.4			C109	C109	E.1/51	
	Invalid card reader identifier	R98	1.5			C109	C109	E.1/51	
	Detachable reader	R98	2.1			C116	C116	E.1/51	
21	**POWER OFF CARD 27.22.4.18**								
	Additional card inserted	R98	1.1			C109	C109	E.1/50	
	No card inserted	R98	1.2			C109	C109	E.1/50	
	Detachable reader	R98	2.1			C116	C116	E.1/50	
22	**POWER ON CARD 27.22.4.19**								
	Additional card inserted	R98	1.1			C109	C109	E.1/49	
	No ATR	R98	1.2			C109	C109	E.1/49	
	No card inserted	R98	1.3			C109	C109	E.1/49	
	Detachable reader	R98	2.1			C116	C116	E.1/49	
23	**GET READER STATUS 27.22.4.20**								
	Additional card inserted, card powered	R98	1.1			C109	C109	E.1/52	
	Additional card inserted, card not powered	R98	1.2			C109	C109	E.1/52	
	Additional card inserted, card not present	R98	1.3			C109	C109	E.1/52	
	Detachable reader	R98	2.1			C116	C116	E.1/52	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
24	**TIMER MANAGEMENT 27.22.4.21.1**								
	Start timer 1 several times, get the current value of the timer and deactivate the timer successfully	R98	1.1			M	M	E.1/57 AND E.1/58	
	Start timer 2 several times, get the current value of the timer and deactivate the timer successfully	R98	1.2			M	M	E.1/57 AND E.1/58	
	Start timer 8 several times, get the current value of the timer and deactivate the timer successfully	R98	1.3			M	M	E.1/57 AND E.1/58	
	Try to get the current value of a timer which is not started: action in contradiction with the current timer state	R98	1.4			M	M	E.1/57 AND E.1/58	
	Try to deactivate a timer which is not started: action in contradiction with the current timer state	R98	1.5			M	M	E.1/57 AND E.1/58	
	Start 8 timers successfully	R98	1.6			M	M	E.1/57 AND E.1/58	
25	**ENVELOPE TIMER EXPIRATION 27.22.4.21.2**								
	Pending proactive SIM command	R98	2.1			M	M	E.1/6 AND E.1/57	
	SIM application toolkit busy	R98	2.2			M	M	E.1/6 AND E.1/57 AND E.1/20	
26	**SET UP IDLE MODE TEXT 27.22.4.22**								
	Display idle mode text	R98	1.1			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Replace idle mode text	R98	1.2			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Remove idle mode test	R98	1.3			M	M	E.1/61 AND E.1/33 AND E.1/39	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
	Competing information on ME display	R98	1.4			M	M	E.1/61 AND E.1/33 AND E.1/39	
	ME powered cycled	R98	1.5			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Refresh with SIM initialization	R98	1.6			M	M	E.1/61 AND E.124 AND E.1/33 AND E.1/39	
	Large text string	R98	1.7			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Followed by a Display Text	R98	1.8			M	M	E.1/61 AND E.1/33 AND E.1/39 AND E.1/17	
	Followed by a Play Tone	R98	1.9			M	M	E.1/61 AND E.1/33 AND E.1/39 AND E.1/21	
	icons	R98	2.1, 2.2, 2.3, 2.4			C108	C108	E.1/61 AND E.1/39	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
	UCS2 display	R98	3.1			C118	C118	E.1/61 AND E.1/15 AND E.1/39	
27	**RUN AT COMMAND 27.22.4.23**								
	No alpha Identifier	R98	1.1			C110	C110	E.1/62	
	null data alpha identifier presented	R98	1.2			C110	C110	E.1/62	
	alpha identifier presented	R98	1.3			C110	C110	E.1/62	
	icons	R98	2.1, 2.2, 2.3, 2.4, 2.5			C114	C114	E.1/62	
28	**SEND DTMF 27.22.4.24**								
	~~A call has been successfully established before the beginning of the test~~Normal	R98	1.1			M	M	E.1/66	
	alpha identifier	R98	1.2, 1.3			M	M	E.1/66	
	Mobile is not in a speech call	R98	1.4			M	M	E.1/66	
	Icons	R98	2.1, 2.2, 2.3			C108	C108	E.1/66	
	UCS2 display	R98	3.1			C118	C118	E.1/66 AND E.1/15	
29	**LANGUAGE NOTIFICATION 27.22.4.25**								
	Specific language notification	R99	1.1				M	E.1/70	
	Non specific language notification	R99	1.2				M	E.1/70	
30	**LAUNCH BROWSER 27.22.4.26**								
	No session already launched: Connect to the default URL	R99	1.1				C111	E.1/71	
	connect to the specified URL, alpha identifier length=0	R99	1.2				C111	E.1/71	
	Browser identity, no alpha identifier	R99	1.3				C111	E.1/71	
	one bearer specified and gateway/proxy identity	R99	1.4				C111	E.1/71	
	several bearers specified, gateway/proxy id specified	R99	1.5				C111	E.1/71	
	Interaction with current session	R99	2.1, 2.2, 2.3				C111	E.1/71	
	UCS2 display	R99	3.1				C117	E.1/71 AND E.1/15	
	icons	R99	4.1, 4.2				C115	E.1/71	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
31	**OPEN CHANNEL 27.22.4.27**								
	Immediate link establishment, CSD, 9600 bps	R99	1.1, 1.2, 1.3, 1.4, 1.5, 1.6				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, 9600 bps, performed with modification	R99	1.7				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, Network currently unable to process command	R99	1.8				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, No channel available	R99	1.9				C113	E.1/89 AND E.1/97	
	ME busy	R99	1.10				M	E.1/89 AND E.1/97 AND E.1/29	
32	**CLOSE CHANNEL 27.22.4.28**								
	successful	R99	1.1				C113	E.1/89 AND E.1/90	
	with an invalid channel identifier	R99	1.2				C113	E.1/89 AND E.1/90	
	on an already closed channel	R99	1.3				C113	E.1/90	
33	**RECEIVE DATA 27.22.4.29**								
	already opened channel	R99	1.1				C113	E.1/89 AND E.1/91	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
34	**SEND DATA 27.22.4.30**								
	immediate mode	R99	1.1				C113	E.1/89 AND E.1/92	
	Store mode	R99	1.2				C113	E.1/89 AND E.1/92	
	Store mode, Tx buffer fully used	R99	1.3				C113	E.1/89 AND E.1/92	
	2 consecutive SEND DATA Store mode	R99	1.4				C113	E.1/89 AND E.1/92	
	immediate mode with a bad channel identifier	R99	1.5				C113	E.1/89 AND E.1/92	
	immediate mode, Proactive SIM session terminated by the user	R99	1.6				C113	E.1/89 AND E.1/92	
35	**GET CHANNEL STATUS 27.22.4.31**								
	without any BIP channel opened	R99	1.1				C113	E.1/93	
	with a BIP channel currently opened	R99	1.2				C113	E.1/89 AND E.1/93	
	after a link dropped	R99	1.3				C113	E.1/89 AND E.1/93	
36	**DATA DOWNLOAD TO SIM 27.22.5**								
37	**SMS-PP DATA DOWNLOAD 27.22.5.1**								
	General data coding, SIM responds with '90 00'	R96	1.1	M	M	M	M	E.1/2	
	SIM responds with '91 XX'	R96	1.2	M	M	M	M	E.1/2	
	More time	R96	1.3	M	M	M	M	E.1/2	
	8 bit alphabet	R96	1.4	M	M	M	M	E.1/2	
	Data coding / message class	R96	1.5, 1.6	M	M	M	M	E.1/2	
38	**SMS-CB DATA DOWNLOAD 27.22.5.2**								
	ME does not display message	R96	1.1	M	M	M	M	E.1/3	
	More time	R96	1.2	M	M	M	M	E.1/3 AND E.1/20	
	ME displays message	R96	1.3	M	M	M	M	E.1/3	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
39	**CALL CONTROL BY SIM 27.22.6**								
	Procedure for MO calls (Cell identity in envelope call control)	R97	1.1 to 1.14		M	M	M	E.1/10 AND E.1/11 AND E.1/13 AND E.1/29	
	Procedure for SS (Cell identity in envelope call control)	R97	2.1, 2.2, 2.3, 2.4		M	M	M	E.1/10 AND E.1/11	
	Interaction with FDN (Cell identity in envelope call control)	R97	3.1, 3.2, 3.3, 3.5		M	M	M	E.1/10	
	Support of BDN service (Cell identity in envelope call control)	R97	4.1, 4.2, 4.3, 4.4		M	M	M	E.1/10	
	MO SMS control by SIM	R97	TBD					E.1/12	
40	**EVENT DOWNLOAD 27.22.7**								
	27.22.7.1: MT call event	R97	1.1		M	M	M	E.1/34 AND E.1/33	
	27.22.7.2.1: call connected event	R97	1.1		M	M	M	E.1/35 AND E.1/33	
	27.22.7.2.2: ME supporting SET UP CALL	R97	2.1		M	M	M	E.1/35 AND E.1/29 AND E.1/33	
	27.22.7.3: call disconnected event	R97	1.1		M	M	M	E.1/36 AND E.1/33	
	27.22.7.4: location status event	R97	1.1		M	M	M	E.1/37 AND E.1/33	
	27.22.7.5: user activity event	R97	1.1		M	M	M	E.1/38 AND E.1/33	
	27.22.7.6: idle screen available event	R97	1.1		M	M	M	E.1/39 AND E.1/33	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
	27.22.7.7.1: Card reader status normal	R98	1.1			C109	C109	E.1/40 AND E.1/33	
	27.22.7.7.2: Detachable card reader	R98	2.1			C116	C116	E.1/40 AND E.1/33	
	27.22.7.8: language selection event	R99	1.1				M	E.1/41 AND E.1/33	
	27.22.7.9: Browser termination event	R99	1.1				C111	E.1/42 AND E.1/33	
	27.22.7.10: Data available event	R99	1.1				C113	E.1/43 AND E.1/89	
	27.22.7.11: Channel status event	R99	1.1				C113	E.1/44 AND E.1/89	

C101	IF A.1/1 THEN M ELSE N/A	-- O_Cap_Conf
C102	void	
C103	void	
C104	IF A.1/2 THEN M ELSE N/A	-- O_Sust_text
C105	IF A.1/3 THEN M ELSE N/A	-- O_Ucs2_Entry
C106	IF A.1/4 THEN M ELSE N/A	-- O_Ext_Str
C107	IF A.1/5 THEN M ELSE N/A	-- O_Help
C108	IF A.1/6 THEN (O.1 OR O.2) ELSE N/A	-- O_Icons
C109	IF A.1/7 THEN M ELSE N/A	-- O_Dual_Slot
C110	IF A.1/9 THEN M ELSE N/A	-- O_Run_At
C111	IF A.1/10 THEN M ELSE N/A	-- O_LB
C112	IF A.1/11 THEN M ELSE N/A	-- O_Soft_key
C113	IF A.1/12 THEN M ELSE N/A	-- O_BIP
C114	IF C110 AND C108 THEN M ELSE N/A	-- O_Run_At AND O_Icons
C115	IF C111 AND C108 THEN M ELSE N/A	-- O_LB AND O_Icons
C116	IF C105 AND A.1/8 THEN M ELSE N/A	-- O_Dual_Slot AND O_Detach_Rdr
C117	IF C111 AND C105 THEN M ELSE N/A	-- O_LB AND O_Ucs2
C118	IF A.1/14 THEN M ELSE N/A	-- O_Ucs2_Disp
C119	IF A.1/19 THEN M ELSE N/A	-- O_Redial
C120	IF A.1/20 THEN M ELSE N/A	-- O_D_NoResp
O.1	IF (the ME supports icons as defined in record 1 of $EF_{(IMG)}$, tests x.1A M ELSE tests x.1B M (where x is the expected sequence number value)	
O.2	IF the ME supports icons as defined in record 2 of $EF_{(IMG)}$, tests x.2A M ELSE x.2B M (where x is the expected sequence number value)	

27.22.4.24.1.4. 2 Procedure

Expected Sequence 1.1 (SEND DTMF, normal~~A call has been successfully established before the beginning of the test~~)

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

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
~~1~~4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.1.1	
~~2~~5	ME → SIM	FETCH	
~~3~~6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 1.1.1	
~~4~~7	ME → USER	May give information to the user concerning what is happening. Do not locally generate audible DTMF tones and play them to the user.	
~~5~~8	ME → SS	Start DTMF 1.1	["1"]
~~6~~9	ME		No DTMF sending for 3 seconds ±20%
~~7~~10	ME → SS	Start DTMF 1.2	["2"]
~~8~~11	ME → SIM	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
1~~9~~2	SIM → ME	PROACTIVE SIM SESSION ENDED	
13	User → ME	End the call	

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

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

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
14	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.2.1	
52	ME → SIM	FETCH	
36	SIM → ME	PROACTIVE COMMAND: SEND DTMF 1.2.1	
74	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	Alpha identifier
58	ME → SS	Start DTMF 1.1	["1"]
96	ME → SS	Start DTMF 1.2	["2"]
710	ME → SS	Start DTMF 1.3	["3"]
118	ME → SS	Start DTMF 1.4	["4"]
129	ME → SS	Start DTMF 1.5	["5"]
103	ME → SS	Start DTMF 1.6	["6"]
141	ME → SS	Start DTMF 1.7	["7"]
125	ME → SS	Start DTMF 1.8	["8"]
163	ME → SS	Start DTMF 1.9	["9"]
147	ME → SS	Start DTMF 1.10	["0"]
185	ME → SIM	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
169	SIM → ME	PROACTIVE SIM SESSION ENDED	
20	User → ME	End the call	

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

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

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
14	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.3.1	
52	ME → SIM	FETCH	
36	SIM → ME	PROACTIVE COMMAND: SEND DTMF 1.3.1	Alpha identifier with null data object
74	ME → USER	Do not give any information to the user on the fact that the ME is performing a SEND DTMF command. Do not locally generate audible DTMF tones and play them to the user.	
58	ME → SS	Start DTMF 1.1	["1"]
96	ME		No DTMF sending for 30 seconds ±20%
710	ME → SS	Start DTMF 1.2	["2"]
118	ME → SIM	TERMINAL RESPONSE: SEND DTMF 1.1.1	[Command performed successfully]
129	SIM → ME	PROACTIVE SIM SESSION ENDED	

13	User → ME	End the call	

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 1.1.1	[Mobile is not in a speech call]
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND DTMF 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SEND DTMF 1.4.1	[ME currently unable to process command, not in speech call]
5	SIM → ME	PROACTIVE SIM SESSION ENDED	

27.22.4.24.2.4.2 Procedure

Expected Sequence 2.1A (SEND DTMF, BASIC ICON self explanatory, successful)

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

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
~~1~~4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.1.1	
5~~2~~	ME → SIM	FETCH	
~~3~~6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.1.1	[BASIC-ICON, self-explanatory]
7~~4~~	ME → USER	Display the BASIC-ICON Do not locally generate audible DTMF tones and play them to the user.	
~~5~~8	ME → SS	Start DTMF 1.1	["1"]
9~~6~~	ME		No DTMF sending for 3 seconds ±20%
~~7~~10	ME → SS	Start DTMF 1.2	["2"]
11~~8~~	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12~~9~~	SIM → ME	PROACTIVE SIM SESSION ENDED	
13	User → ME	End the call	

Expected Sequence 2.1B (SEND DTMF, BASIC ICON self explanatory, requested icon could not be displayed)

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

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
14	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.1.1	
52	ME → SIM	FETCH	
36	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.1.1	[BASIC-ICON, self-explanatory]
74	ME → USER	Display "Basic Icon" without the icon Do not locally generate audible DTMF tones and play them to the user.	
58	ME → SS	Start DTMF 1.1	["1"]
96	ME		No DTMF sending for 3 seconds ±20 %
710	ME → SS	Start DTMF 1.2	["2"]
118	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
129	SIM → ME	PROACTIVE SIM SESSION ENDED	
13	User → ME	End the call	

Expected Sequence 2.2A (SEND DTMF, COLOUR-ICON self explanatory, successful)

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

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
14	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.2.1	
52	ME → SIM	FETCH	
63	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.2.1	[COLOUR-ICON]
47	ME → USER	Display the COLOUR-ICON Do not locally generate audible DTMF tones and play them to the user.	
85	ME → SS	Start DTMF 1.1	["1"]
69	ME		No DTMF sending for 3 seconds ±20%
107	ME → SS	Start DTMF 1.2	["2"]
118	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
129	SIM → ME	PROACTIVE SIM SESSION ENDED	
13	User → ME	End the call	

Expected Sequence 2.2B (SEND DTMF, COLOUR-ICON self explanatory, requested icon could not be displayed)

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

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
~~1~~4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.2.1	
5~~2~~	ME → SIM	FETCH	
~~3~~6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.2.1	[COLOUR-ICON]
7~~4~~	ME → USER	Display "Colour Icon" without the icon Do not locally generate audible DTMF tones and play them to the user.	
~~5~~8	ME → SS	Start DTMF 1.1	["1"]
9~~6~~	ME		No DTMF sending for 3 seconds ±20%
~~7~~10	ME → SS	Start DTMF 1.2	["2"]
11~~8~~	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12~~9~~	SIM → ME	PROACTIVE SIM SESSION ENDED	
13	User → ME	End the call	

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

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

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
~~1~~4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.3.1	
5~~2~~	ME → SIM	FETCH	
~~3~~6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.3.1	[Alpha identifier & BASIC-ICON, not self-explanatory]
7~~4~~	ME → USER	Display the BASIC-ICON Do not locally generate audible DTMF tones and play them to the user.	
~~5~~8	ME → SS	Start DTMF 1.1	["1"]
9~~6~~	ME		No DTMF sending for 3 seconds ±20 %
~~7~~10	ME → SS	Start DTMF 1.2	["2"]
11~~8~~	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1A	[Command performed successfully]
12~~9~~	SIM → ME	PROACTIVE SIM SESSION ENDED	
13	User → ME	End the call	

Expected Sequence 2.3B (SEND DTMF, Alpha identifier & BASIC-ICON, not self-explanatory, requested icon could not be displayed)

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

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
~~1~~4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 2.3.1	
5~~2~~	ME → SIM	FETCH	
~~3~~6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 2.3.1	[Alpha identifier & BASIC-ICON, not self-explanatory]
7~~4~~	ME → USER	Display "Send DTMF" without the icon Do not locally generate audible DTMF tones and play them to the user.	
~~5~~8	ME → SS	Start DTMF 1.1	["1"]
9~~6~~	ME		No DTMF sending for 3 seconds ±20%
~~7~~10	ME → SS	Start DTMF 1.2	["2"]
11~~8~~	ME → SIM	TERMINAL RESPONSE: SEND DTMF 2.1.1B	[Command performed successfully, but requested icon could not be displayed]
12~~9~~	SIM → ME	PROACTIVE SIM SESSION ENDED	
13	User → ME	End the call	

27.22.4.24.3.4.2 Procedure

Expected Sequence 3.1 (SEND DTMF, successful, UCS2 text)

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

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call to "+0123456789"	
2	ME → SS	The ME attempts to set up a call to "+0123456789"	
3	SS → ME	The ME receives the CONNECT message from the system simulator.	
~~1~~4	SIM → ME	PROACTIVE COMMAND PENDING: SEND DTMF 3.1.1	
5~~2~~	ME → SIM	FETCH	
~~3~~6	SIM → ME	PROACTIVE COMMAND: SEND DTMF 3.1.1	
7~~4~~	ME → USER	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
8~~5~~	ME → SS	Start DTMF 1.1	["1"]
9~~6~~	ME		No DTMF sending for 3 seconds ±20%
10~~7~~	ME → SS	Start DTMF 1.2	["2"]
11~~8~~	ME → SIM	TERMINAL RESPONSE: SEND DTMF 3.1.1	[Command performed successfully]
12~~9~~	SIM → ME	PROACTIVE SIM SESSION ENDED	
13	User → ME	End the call	

3GPP TSG-T3 Meeting #29
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Tdoc ⌘T3-031039

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A060** ⌘**rev** **-** ⌘ Current version: **8.5.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Introduction of BIP testing in GPRS
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	21/11/03
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change: ⌘ The BIP test scripts were incomplete because only defined for CSD.

Tables of options & compliance incomplete, causing the ME to fail the tests on Open Channel (CSD) if the ME only supports of BIP related to GPRS.

Summary of change: ⌘

- In the Option table A.1, introduction of the Option BIP (related to GPRS or to CSD)
- In the Applicability table B.1, introduction of conditions in the tests reflecting optional support of BIP using CSD or GPRS. Note the tests are applicable if ME supports GPRS in UDP mode. Also reflected in the C121 condition.
- Corrections on Open Channel in CSD tests:
- Buffer size increased from 42 bytes to 1400 bytes
- Sequences 1.1 to 1.9 : wrong TLVs in Terminal Response
- Sequences 1.5 & 1.6 : missing buffer size in logical descriptions
- Sequence 1.7 to 1.9 : wrong data rate coding
- Sequence 1.8 & 1.9 & 1.10 : missing bearer description & corresponding TLV coding in Terminal Responses
- Introduction of Open Channel using GPRS tests, see below:
- In the initial conditions:
- Inclusion of Bearer parameters, with the notion of QoS
- Inclusion of GPRS parameters
- inclusion of SIM/ME interface transport level description
- Added tests 2.1 to 2.8
- Insertion of initial conditions with 2 possible ways to open the channel (in CSD or in GPRS) to avoid replication of all test sequences for a GPRS channel in the following tests: Close Channel, Receive Data, Send Data, Get Channel Status, Event Data available and Event Channel Status.

		- Adjustment of all Sequence tables of: Close Channel, Receive Data, Send Data, Get Channel Status, Event Data available and Event Channel Status : Open Channel (CSD) replaced by Open Channel (CSD or GPRS) depending on the ME capabilities towards the BIP. - Insertion of the corresponding Open Channel (in CSD or GPRS) logical descriptions & coding to the following tests: Close Channel, Receive Data, Send Data, Get Channel Status, Event Data available and Event Channel Status.
Consequences if not approved:	⌘	MEs not implementing BIP related to CSD will fail the current BIP tests. No tests for BIP related to GPRS available.

Clauses affected:	⌘	3.2, 3.4, 27.22.4.27.4, 27.22.4.28.4, 27.22.4.29.4, 27.22.4.30.4, 27.22.4.31.4, 27.22.7.10.4, 27.22.7.11.4			
Other specs affected:	⌘	**Y**	**N**		
			X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

3.2 Table of optional features

Support of SIM Application Toolkit is optional for Mobile Equipment. However, if an ME states conformance with a specific GSM release, it is mandatory for the ME to support all functions of that release, as stated in table A.1.
The support of letter classes, which specify mainly ME hardware dependent features, is optional for the ME and may supplement the SIM Application Toolkit functionality described in the present document. If an ME states conformance to a letter class, it is mandatory to support all functions within the respective letter class.
The supplier of the implementation shall state the support of possible options in table A.1.

Table A.1: Options

Item	Option	Status	Support	Mnemonic
1	Capability Configuration parameter	O		O_Cap_Conf
2	Sustained text	O		O_sust_text
3	UCS2 coding scheme for Entry	O		O_Ucs2_Entry
4	Extended Text String	O		O_Ext_Str
5	Help information	O		O_Help
6	Icons	O		O_Icons
7	Class A: Dual Slot	O		O_Dual_Slot
8	Detachable reader	O		O_Detach_Rdr
9	Class B: RUN AT	O		O_Run_At
10	Class C: LAUNCH BROWSER	O		O_LB
11	Class D: Soft keys	O		O_Soft_key
12	Class E: B.I.P related to CSD	O		O_BIP_CSD
13	Screen sizing parameters	O		O_Scr_Siz
14	Screen Resizing	O		O_Scr_Resiz
15	UCS2 coding scheme for Display	O		O_Ucs2_Disp
16	Mobile supporting GPRS	O		O_GPRS
17	Mobile supporting UDP	O		O_UDP
18	Mobile supporting TCP	O		O_TCP
19	Redial in Set Up Call	O		O_Redial
20	Mobile decision to respond with "No response from user" in finite time	O		O_D_NoResp
21	Class E: B.I.P related to GPRS	O		O_BIP_GPRS

3.4 Applicability table

Table B.1: Applicability of tests

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
1	**PROFILE DOWNLOAD 27.22.1**	**R96**	**1**	**M**	**M**	**M**	**M**	E.1/1	
2	**Contents of the TERMINAL PROFILE command 27.22.2**	R96		M	M	M	M	E.1/1	
3	**Servicing of Proactive SIM Commands 27.22.3**	R96		M	M	M	M		
4	**DISPLAY TEXT 27.22.4.1**								
	Unpacked	R96	1.1	M	M	M	M	E.1/17	
	Screen busy	R96	1.2	M	M	M	M	E.1/17	
	high priority	R96	1.3	M	M	M	M	E.1/17	
	Packed	R96	1.4	M	M	M	M	E.1/17	
	clear after delay	R96	1.5	M	M	M	M	E.1/17	
	clear after user confirmation	R96	1.1	M	M	M	M	E.1/17	
	long text up to 160 bytes	R96	1.6	M	M	M	M	E.1/17	
	Backwards move in SIM session	R96	1.7	M	M	M	M	E.1/17	
	Session terminated by user	R96	1.8	M	M	M	M	E.1/17	
	Command not understood by ME	R96	1.9	M	M	M	M	E.1/17	
	no response from user	R96	2.1	M	M	M	M	E.1/17	
	Extension Text	R98	3.1			C106	C106	E.1/17 AND E.1/16	
	sustained text	R98	4.1, 4.2, 4.3, 4.4			C104	C104	E.1/17 AND E.1/65	
	Icons	R98	5.1, 5.2, 5.3			C108	C108	E.1/17	
	UCS2 display	R97	6.1		C118	C118	C118	E.1/17 AND E.1/15	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
5	**GET INKEY 27.22.4.2**								
	prompt unpacked	R96	1.1	M	M	M	M	E.1/18	
	prompt packed	R96	1.2	M	M	M	M	E.1/18	
	digits only	R96	1.1	M	M	M	M	E.1/18	
	Backwards move in SIM session	R96	1.3	M	M	M	M	E.1/18	
	Session terminated by user	R96	1.4	M	M	M	M	E.1/18	
	SMS alphabet	R96	1.5	M	M	M	M	E.1/18	
	Long text up to 160 bytes	R96	1.6	M	M	M	M	E.1/18	
	no response from user	R96	2.1	M	M	M	M	E.1/18	
	UCS2 display	R97	3.1		C118	C118	C118	E.1/18 AND E.1/15	
	UCS2 display, Long text up to 70 chars	R97	3.2		C118	C118	C118	E.1/18 AND E.1/15	
	UCS2 format of entry	R97	4.1		C105	C105	C105	E.1/18 AND E.1/14	
	"Yes/No" response	R98	5.1			M	M	E.1/18 AND E.1/60	
	Icons	R98	6.1, 6.2, 6.3, 6.4			C108	C108	E.1/18	
	Help information	R97	7.1		C107	C107	C107	E.1/18	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
6	**GET INPUT 27.22.4.3**								
	input unpacked	R96	1.1	M	M	M	M	E.1/19	
	input packed	R96	1.2	M	M	M	M	E.1/19	
	digits only	R96	1.1	M	M	M	M	E.1/19	
	SMS alphabet	R96	1.3	M	M	M	M	E.1/19	
	hidden input	R96	1.4	M	M	M	M	E.1/19	
	min / max acceptable length	R96	1.5, 1.9	M	M	M	M	E.1/19	
	Backwards move in SIM session	R96	1.6	M	M	M	M	E.1/19	
	Session terminated by user	R96	1.7	M	M	M	M	E.1/19	
	Prompt text up to 160 bytes	R96	1.8	M	M	M	M	E.1/19	
	SMS default alphabet, ME to echo text, packing not required	R96	1.9	M	M	M	M	E.1/19	
	Null length for the text string	R96	1.10	M	M	M	M	E.1/19	
	no response from user	R96	2.1	M	M	M	M	E.1/19	
	UCS2 display	R97	3.1, 3.2		C118	C118	C118	E.1/19 AND E.1/15	
	UCS2 entry	R97	4.1, 4.2		C105	C105	C105	E.1/19 AND E.1/14	
	default text for the input	R97	5.1, 5.2		M	M	M	E.1/19	
	icons	R98	6.1, 6.2, 6.3, 6.4			C108	C108	E.1/19	
	help information	R97	7.1		C107	C107	C107	E.1/19	
7	**MORE TIME 27.22.4.4**	**R96**	1.1	M	M	M	M	E.1/20	
8	**PLAY TONE 27.22.4.5**								
	play all tones	R96	1.1	M	M	M	M	E.1/21	
	display alpha	R96	1.1	M	M	M	M	E.1/21	
	user termination	R96	1.1	M	M	M	M	E.1/21	
	superimpose	R96	1.1	M	M	M	M	E.1/21	
	UCS2 display	R97	TBD					E.1/21 AND E.1/15	
	icons	R98	TBD					E.1/21	
9	**POLL INTERVAL 27.22.4.6**								
	duration	R96	1.1	M	M	M	M	E.1/22	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
10	**REFRESH 27.22.4.7**								
	SIM initialization, enabling FDN mode	R96	1.1	M	M	M	M	E.1/24	
	file change notification of FDN file	R96	1.2	M	M	M	M	E.1/24	
	SIM initialization and file change notification of PLMN	R96	1.3	M	M	M	M	E.1/24	
	SIM initialization and full file change notification, enabling FDN mode	R96	1.4	M	M	M	M	E.1/24	
	SIM reset	R96	1.5	M	M	M	M	E.1/24	
	SIM Initialization after SMS-PP data download	R96	1.6	M	M	M	M	E.1/24	
	IMSI Changing procedure	R98	2.1			M	M	E.1/24	
11	**SET UP MENU 27.22.4.8**								
	Set up, menu selection, replace and remove menu	R96	1.1	M	M	M	M	E.1/30 AND E.1/4	
	Large menu	R96	1.2	M	M	M	M	E.1/30 AND E.1/4	
	help information	R97	2.1		C107	C107	C107	E.1/30 AND E.1/4	
	next action indicator	R97	3.1		M	M	M	E.1/30	
	icons	R98	4.1, 4.2			C108	C108	E.1/30	
	soft key access	R99	5.1				C112	E.1/30 AND E.1/74	
12	**SELECT ITEM 27.22.4.9**								
	Mandatory features	R96	1.1	M	M	M	M	E.1/25	
	Large menu	R96	1.2, 1.3, 1.5,1.6	M	M	M	M	E.1/25	
	Backwards move	R96	1.4	M	M	M	M	E.1/25	
	user termination	R96	1.5	M	M	M	M	E.1/25	
	no response from user	R96	8.1	C120	C120	C120	C120	E.1/25	
	next action indicator	R97	2.1		M	M	M	E.1/25	
	default selected item	R97	3.1		M	M	M	E.1/25	
	help information	R97	4.1		C107	C107	C107		
	icons	R98	5.1, 5.2			C108	C108	E.1/25	
	Presentation style	R98	6.1, 6.2			M	M	E.1/25	
	Soft keys	R99	7.1				C112	E.1/25 AND E.1/73	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
13	**SEND SMS 27.22.4.10**								
	Packing not required	R96	1.1, 1.3 1.5	M	M	M	M	E.1/26	
	Packing required	R96	1.2, 1.4	M	M	M	M	E.1/26	
	8 bit data	R96	1.1, 1.2	M	M	M	M	E.1/26	
	SMS default alphabet	R96	1.3, 1.4, 1.5	M	M	M	M	E.1/26	
	160 bytes length	R96	1.4, 1.5	M	M	M	M	E.1/26	
	Alpha identifier	R96	1.6, 1.7, 1.8	M	M	M	M	E.1/26	
	UCS2 SMS	R97	2.1		C118	C118	C118	E.1/26 AND E.1/15	
	icons	R98	3.1, 3.2			C108	C108	E.1/26	
14	**SEND SS 27.22.4.11**								
	call forward unconditional, all bearers, successful	R96	1.1	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, Return Error	R96	1.2	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, Reject	R96	1.3	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, SS request size limit	R96	1.4	M	M	M	M	E.1/27	
	interrogate CLIR status, successful, alpha identifier limits	R96	1.5	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, null data alpha identifier	R96	1.6	M	M	M	M	E.1/27	
	call forward unconditional, all bearers, successful, icon support	R98	2.1, 2.2, 2.3, 2.4			C108	C108	E.1/27	
	UCS2 display	R97	3.1		C118	C118	C118	E.1/27 AND E.1/15	
15	**SEND USSD 27.22.4.12**								
	7-bit data, successful	R96	1.1	M	M	M	M	E.1/28	
	8-bit data, successful	R96	1.2	M	M	M	M	E.1/28	
	UCS2 data, successful	R96	1.3	M	M	M	M	E.1/28	
	7-bit data, unsuccessful	R96	1.4	M	M	M	M	E.1/28	
	7-bit data, unsuccessful	R96	1.5	M	M	M	M	E.1/28	
	256 octets, 7-bit data, successful, long alpha identifier	R96	1.6	M	M	M	M	E.1/28	
	7-bit data, successful, no alpha identifier	R96	1.7	M	M	M	M	E.1/28	
	7-bit data, successful, null length alpha identifier	R96	1.8	M	M	M	M	E.1/28	
	icons	R98	2.1, 2.2, 2.3, 2.4			C108	C108	E.1/28	
	UCS2	R97	3.1		C118	C118	C118	E.1/28	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
								AND E.1/15	
16	**SET UP CALL 27.22.4.13**								
	Call confirmed by the user and connected	R96	1.1	M	M	M	M	E.1/29	
	call rejected by the user	R96	1.2	M	M	M	M	E.1/29	
	redial	R96	1.3	C119	C119	C119	C119	E.1/29	
	putting all other calls on hold, ME busy	R96	1.4	M	M	M	M	E.1/29	
	disconnecting all other calls, ME busy	R96	1.5	M	M	M	M	E.1/29	
	only if not currently busy on another call, ME busy	R96	1.6	M	M	M	M	E.1/29	
	putting all other calls on hold, call hold is not allowed	R96	1.7	M	M	M	M	E.1/29	
	Capability configuration	R96	1.8	C101	C101	C101	C101	E.1/29	
	long dialling number string	R96	1.9	M	M	M	M	E.1/29	
	long first alpha identifier	R96	1.10	M	M	M	M	E.1/29	
	Called party subaddress	R96	1.11	M	M	M	M	E.1/29	
	maximum duration for the redial mechanism	R96	1.12	C119	C119	C119	C119	E.1/29	
	second alpha identifier	R98	2.1			M	M	E.1/29 AND E.1/63	
	UCS2 Display	R97	TBD					E.1/29 AND E.1/15	
	icons	R98	3.1,3.2, 3.3, 3.4			C108	C108	E.1/29	
17	**POLLING OFF 27.22.4.14**	**R96**	1.1	M	M	M	M	E.1/23	
18	**PROVIDE LOCAL INFO 27.22.4.15**								
	location information	R96	1.1	M	M	M	M	E.1/31	
	IMEI	R96	1.2	M	M	M	M	E.1/31	
	network measurement results and BCCH channel list	R98	1.3			M	M	E.1/32 AND E.1/67	
	Date, time and time zone	R98	1.4			M	M	E.1/59	
	language setting	R99	1.5				M	E.1/68	
	Timing advance	R99	1.6				M	E.1/69	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
19	**SET UP EVENT LIST 27.22.4.16**								
	Set up call connected event	R97	1.1		M	M	M	E.1/33 AND E.1/35	
	Replace by new event list	R97	1.2		M	M	M	E.1/33 AND E.1/35 AND E.1/36	
	Remove event	R97	1.3		M	M	M	E.1/33 AND E.1/35	
	Remove Event on ME Power Cycle	R97	1.4		M	M	M	E.1/33 AND E.1/35	
20	**PERFORM CARD APDU 27.22.4.17**								
	Additional card inserted, Select MF and Get Response	R98	1.1			C109	C109	E.1/51	
	Additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN	R98	1.2			C109	C109	E.1/51	
	Additional card inserted, card powered off	R98	1.3			C109	C109	E.1/51	
	No card inserted, card powered off	R98	1.4			C109	C109	E.1/51	
	Invalid card reader identifier	R98	1.5			C109	C109	E.1/51	
	Detachable reader	R98	2.1			C116	C116	E.1/51	
21	**POWER OFF CARD 27.22.4.18**								
	Additional card inserted	R98	1.1			C109	C109	E.1/50	
	No card inserted	R98	1.2			C109	C109	E.1/50	
	Detachable reader	R98	2.1			C116	C116	E.1/50	
22	**POWER ON CARD 27.22.4.19**								
	Additional card inserted	R98	1.1			C109	C109	E.1/49	
	No ATR	R98	1.2			C109	C109	E.1/49	
	No card inserted	R98	1.3			C109	C109	E.1/49	
	Detachable reader	R98	2.1			C116	C116	E.1/49	
23	**GET READER STATUS 27.22.4.20**								
	Additional card inserted, card powered	R98	1.1			C109	C109	E.1/52	
	Additional card inserted, card not powered	R98	1.2			C109	C109	E.1/52	
	Additional card inserted, card not present	R98	1.3			C109	C109	E.1/52	
	Detachable reader	R98	2.1			C116	C116	E.1/52	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
24	**TIMER MANAGEMENT 27.22.4.21.1**								
	Start timer 1 several times, get the current value of the timer and deactivate the timer successfully	R98	1.1			M	M	E.1/57 AND E.1/58	
	Start timer 2 several times, get the current value of the timer and deactivate the timer successfully	R98	1.2			M	M	E.1/57 AND E.1/58	
	Start timer 8 several times, get the current value of the timer and deactivate the timer successfully	R98	1.3			M	M	E.1/57 AND E.1/58	
	Try to get the current value of a timer which is not started: action in contradiction with the current timer state	R98	1.4			M	M	E.1/57 AND E.1/58	
	Try to deactivate a timer which is not started: action in contradiction with the current timer state	R98	1.5			M	M	E.1/57 AND E.1/58	
	Start 8 timers successfully	R98	1.6			M	M	E.1/57 AND E.1/58	
25	**ENVELOPPE TIMER EXPIRATION 27.22.4.21.2**								
	Pending proactive SIM command	R98	2.1			M	M	E.1/6 AND E.1/57	
	SIM application toolkit busy	R98	2.2			M	M	E.1/6 AND E.1/57 AND E.1/20	
26	**SET UP IDLE MODE TEXT 27.22.4.22**								
	Display idle mode text	R98	1.1			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Replace idle mode text	R98	1.2			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Remove idle mode test	R98	1.3			M	M	E.1/61 AND E.1/33 AND	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
								E.1/39	
	Competing information on ME display	R98	1.4			M	M	E.1/61 AND E.1/33 AND E.1/39	
	ME powered cycled	R98	1.5			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Refresh with SIM initialization	R98	1.6			M	M	E.1/61 AND E.124 AND E.1/33 AND E.1/39	
	Large text string	R98	1.7			M	M	E.1/61 AND E.1/33 AND E.1/39	
	Followed by a Display Text	R98	1.8			M	M	E.1/61 AND E.1/33 AND E.1/39 AND E.1/17	
	Followed by a Play Tone	R98	1.9			M	M	E.1/61 AND E.1/33 AND E.1/39 AND E.1/21	
	icons	R98	2.1, 2.2, 2.3, 2.4			C108	C108	E.1/61 AND E.1/39	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
	UCS2 display	R98	3.1			C118	C118	E.1/61 AND E.1/15 AND E.1/39	
27	**RUN AT COMMAND 27.22.4.23**								
	No alpha Identifier	R98	1.1			C110	C110	E.1/62	
	null data alpha identifier presented	R98	1.2			C110	C110	E.1/62	
	alpha identifier presented	R98	1.3			C110	C110	E.1/62	
	icons	R98	2.1, 2.2, 2.3, 2.4, 2.5			C114	C114	E.1/62	
28	**SEND DTMF 27.22.4.24**								
	A call has been successfully established before the beginning of the test	R98	1.1			M	M	E.1/66	
	alpha identifier	R98	1.2, 1.3			M	M	E.1/66	
	Mobile is not in a speech call	R98	1.4			M	M	E.1/66	
	Icons	R98	2.1, 2.2, 2.3			C108	C108	E.1/66	
	UCS2 display	R98	3.1			C118	C118	E.1/66 AND E.1/15	
29	**LANGUAGE NOTIFICATION 27.22.4.25**								
	Specific language notification	R99	1.1				M	E.1/70	
	Non specific language notification	R99	1.2				M	E.1/70	
30	**LAUNCH BROWSER 27.22.4.26**								
	No session already launched: Connect to the default URL	R99	1.1				C111	E.1/71	
	connect to the specified URL, alpha identifier length=0	R99	1.2				C111	E.1/71	
	Browser identity, no alpha identifier	R99	1.3				C111	E.1/71	
	one bearer specified and gateway/proxy identity	R99	1.4				C111	E.1/71	
	several bearers specified, gateway/proxy id specified	R99	1.5				C111	E.1/71	
	Interaction with current session	R99	2.1, 2.2, 2.3				C111	E.1/71	
	UCS2 display	R99	3.1				C117	E.1/71 AND E.1/15	
	icons	R99	4.1, 4.2				C115	E.1/71	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
31	**OPEN CHANNEL 27.22.4.27**								
	Immediate link establishment, CSD, 9600 bps	R99	1.1, 1.2, 1.3, 1.4, 1.5, 1.6				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, 9600 bps, performed with modification	R99	1.7				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, Network currently unable to process command	R99	1.8				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, No channel available	R99	1.9				C113	E.1/89 AND E.1/97	
	CSD, ME busy on call	R99	1.10				~~M~~C113	E.1/89 AND E.1/97 AND E.1/29	
	immediate link establishment, GPRS, no local address, no alpha identifier, no network access name	R99	2.1				C121	E.1/89 AND E.1/98	
	immediate link establishment GPRS, no alpha identifier, with network access name	R99	2.2				C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, with alpha identifier	R99	2.3				C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, with null alpha identifier	R99	2.4				C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, command performed with modifications (buffer size)	R99	2.5				C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, User did not accept the proactive command	R99	2.6				C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, open command with alpha identifier, User did not accept the proactive command	R99	2.7				C121	E.1/89 AND E.1/98	
	GPRS, ME busy on call	R99	2.8				C121	E.1/89 AND	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
								E.1/98	
32	**CLOSE CHANNEL 27.22.4.28**								
	successful	R99	1.1				C113 AND C121	E.1/89 AND E.1/90	
	with an invalid channel identifier	R99	1.2				C113 AND C121	E.1/89 AND E.1/90	
	on an already closed channel	R99	1.3				C113 AND C121	E.1/90	
33	**RECEIVE DATA 27.22.4.29**								
	already opened channel	R99	1.1				C113 AND C121	E.1/89 AND E.1/91	
34	**SEND DATA 27.22.4.30**								
	immediate mode	R99	1.1				C113 AND C121	E.1/89 AND E.1/92	
	Store mode	R99	1.2				C113 AND C121	E.1/89 AND E.1/92	
	Store mode, Tx buffer fully used	R99	1.3				C113 AND C121	E.1/89 AND E.1/92	
	2 consecutive SEND DATA Store mode	R99	1.4				C113 AND C121	E.1/89 AND E.1/92	
	immediate mode with a bad channel identifier	R99	1.5				C113 AND C121	E.1/89 AND E.1/92	
	immediate mode, Proactive SIM session terminated by the user	R99	1.6				C113 AND C121	E.1/89 AND E.1/92	
35	**GET CHANNEL STATUS 27.22.4.31**								
	without any BIP channel opened	R99	1.1				C113 AND C121	E.1/93	
	with a BIP channel currently opened	R99	1.2				C113 AND C121	E.1/89 AND E.1/93	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
	after a link dropped	R99	1.3				C113 AND C121	E.1/89 AND E.1/93	
36	**DATA DOWNLOAD TO SIM 27.22.5**								
37	**SMS-PP DATA DOWNLOAD 27.22.5.1**								
	General data coding, SIM responds with '90 00'	R96	1.1	M	M	M	M	E.1/2	
	SIM responds with '91 XX'	R96	1.2	M	M	M	M	E.1/2	
	More time	R96	1.3	M	M	M	M	E.1/2	
	8 bit alphabet	R96	1.4	M	M	M	M	E.1/2	
	Data coding / message class	R96	1.5, 1.6	M	M	M	M	E.1/2	
38	**SMS-CB DATA DOWNLOAD 27.22.5.2**								
	ME does not display message	R96	1.1	M	M	M	M	E.1/3	
	More time	R96	1.2	M	M	M	M	E.1/3 AND E.1/20	
	ME displays message	R96	1.3	M	M	M	M	E.1/3	
39	**CALL CONTROL BY SIM 27.22.6**								
	Procedure for MO calls (Cell identity in envelope call control)	R97	1.1 to 1.14		M	M	M	E.1/10 AND E.1/11 AND E.1/13 AND E.1/29	
	Procedure for SS (Cell identity in envelope call control)	R97	2.1, 2.2, 2.3, 2.4		M	M	M	E.1/10 AND E.1/11	
	Interaction with FDN (Cell identity in envelope call control)	R97	3.1, 3.2, 3.3, 3.5		M	M	M	E.1/10	
	Support of BDN service (Cell identity in envelope call control)	R97	4.1, 4.2, 4.3, 4.4		M	M	M	E.1/10	
	MO SMS control by SIM	R97	TBD					E.1/12	
40	**EVENT DOWNLOAD 27.22.7**								
	27.22.7.1: MT call event	R97	1.1		M	M	M	E.1/34 AND E.1/33	
	27.22.7.2.1: call connected event	R97	1.1		M	M	M	E.1/35 AND E.1/33	
	27.22.7.2.2: ME supporting SET UP CALL	R97	2.1		M	M	M	E.1/35 AND E.1/29	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
								AND E.1/33	
	27.22.7.3: call disconnected event	R97	1.1		M	M	M	E.1/36 AND E.1/33	
	27.22.7.4: location status event	R97	1.1		M	M	M	E.1/37 AND E.1/33	
	27.22.7.5: user activity event	R97	1.1		M	M	M	E.1/38 AND E.1/33	
	27.22.7.6: idle screen available event	R97	1.1		M	M	M	E.1/39 AND E.1/33	
	27.22.7.7.1: Card reader status normal	R98	1.1			C109	C109	E.1/40 AND E.1/33	
	27.22.7.7.2: Detachable card reader	R98	2.1			C116	C116	E.1/40 AND E.1/33	
	27.22.7.8: language selection event	R99	1.1				M	E.1/41 AND E.1/33	
	27.22.7.9: Browser termination event	R99	1.1				C111	E.1/42 AND E.1/33	
	27.22.7.10: Data available event	R99	1.1				C113 AND C121	E.1/43 AND E.1/89	
	27.22.7.11: Channel status event	R99	1.1				C113 AND C121	E.1/44 AND E.1/89	

C101	IF A.1/1 THEN M ELSE N/A	-- O_Cap_Conf
C102	void	
C103	void	
C104	IF A.1/2 THEN M ELSE N/A	-- O_Sust_text
C105	IF A.1/3 THEN M ELSE N/A	-- O_Ucs2_Entry
C106	IF A.1/4 THEN M ELSE N/A	-- O_Ext_Str
C107	IF A.1/5 THEN M ELSE N/A	-- O_Help
C108	IF A.1/6 THEN (O.1 OR O.2) ELSE N/A	-- O_Icons
C109	IF A.1/7 THEN M ELSE N/A	-- O_Dual_Slot

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
C110	IF A.1/9 THEN M ELSE N/A -- O_Run_At								
C111	IF A.1/10 THEN M ELSE N/A -- O_LB								
C112	IF A.1/11 THEN M ELSE N/A -- O_Soft_key								
C113	IF A.1/12 THEN M ELSE N/A -- O_BIP_CSD								
C114	IF C110 AND C108 THEN M ELSE N/A -- O_Run_At AND O_Icons								
C115	IF C111 AND C108 THEN M ELSE N/A -- O_LB AND O_Icons								
C116	IF C105 AND A.1/8 THEN M ELSE N/A -- O_Dual_Slot AND O_Detach_Rdr								
C117	IF C111 AND C105 THEN M ELSE N/A -- O_LB AND O_Ucs2								
C118	IF A.1/14 THEN M ELSE N/A -- O_Ucs2_Disp								
C119	IF A.1/19 THEN M ELSE N/A -- O_Redial								
C120	IF A.1/20 THEN M ELSE N/A -- O_D_NoResp								
C121	IF A.1/21 AND A.1/17 THEN M ELSE N/A -- O_BIP_GPRS AND O_UDP								
O.1	IF (the ME supports icons as defined in record 1 of $EF_{(IMG)}$, tests x.1A M ELSE tests x.1B M (where x is the expected sequence number value)								
O.2	IF the ME supports icons as defined in record 2 of $EF_{(IMG)}$, tests x.2A M ELSE x.2B M (where x is the expected sequence number value)								

27.22.4.27 OPEN CHANNEL

27.22.4.27.1 ~~27.22.4.27.1~~ Open Channel (related to CSD)

27.22.4.27.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 11.14 [15].

27.22.4.27.1.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (OK); or
- TERMINAL RESPONSE (Command performed with modification); or
- TERMINAL RESPONSE (Network currently unable to process command);

to the SIM after the ME receives the OPEN CHANNEL proactive command. The TERMINAL RESPONSE sent back to the SIM is function of the ME and the network capabilities against asked parameters by the SIM.

27.22.4.27.1.4 Method of test

27.22.4.27.1.4.1 Initial conditions

The ME is connected to the SIM Simulator and the System Simulator. The elementary files are coded as Toolkit default.
Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.27.1.4.2 Procedure

Expected Sequence 1.1 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.32)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1	
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

Device identities
Source device: SIM
Destination device: ME
Address
TON: International number
NPI: ISDN / telephone numbering plan
Dialling number string "112233445566778"
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 9600bps V.32
Bearer service: data circuit asynchronous UDI
Connection element: non-transparent
Buffer size 421400 bytes

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	0005	782A				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1

Logically:
Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 9600bps V.32
Bearer service: data circuit asynchronous
Connection element: non-transparent
Buffer size 1400 bytes42

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	001	B5	04	01	07	00	01	B9	02
	0500	782A										

Expected Sequence 1.2 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.34)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.2.1	
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.2.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.2.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Address
- TON: International number
- NPI: ISDN / telephone numbering plan
- Dialling number string "112233445566778"

Bearer description
- Bearer type: CSD
- Bearer parameter
  - Data rate: 9600bps V.34
  - Bearer service: data circuit asynchronous UDI
  - Connection element: non-transparent
- Buffer size 1400 bytes~~42~~

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	0C	00	01	B9	02	05~~00~~	78~~2A~~				

TERMINAL RESPONSE: OPEN CHANNEL 1.2.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: Command performed successfully

Channel status Channel identifier 1 and link established or PDP context activated

Bearer description
- Bearer type: CSD

Bearer parameter
Data rate: 9600bps V.34
Bearer service: data circuit asynchronous
Connection element: non-transparent
Buffer size 1400 bytes~~42~~

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	~~01~~00	B5	04	01	0C	00	01	B9	02
	05~~00~~	78~~2A~~										

Expected Sequence 1.3 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.120)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.3.1	
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.3.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.3.1

Logically:
Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: SIM
Destination device: ME
Address
TON: International number
NPI: ISDN / telephone numbering plan
Dialling number string "112233445566778"
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 9600bps V.120
Bearer service: data circuit asynchronous UDI
Connection element: non-transparent
Buffer size 1400 bytes~~42~~

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	27	00	01	B9	02	05~~00~~	78~~2A~~				

TERMINAL RESPONSE: OPEN CHANNEL 1.3.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: Command performed successfully

Channel status: Channel identifier 1 and link established or PDP context activated

Bearer description
- Bearer type: CSD

Bearer parameter
- Data rate: 9600bps V.120
- Bearer service: data circuit asynchronous
- Connection element: non-transparent

Buffer size: 1400 bytes~~42~~

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	~~01~~00	B5	04	01	27	00	01	B9	02
	05~~00~~	78~~2A~~										

Expected Sequence 1.4 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.110 or X.31 flag stuffing, bearer asynchronous UDI)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.4.1	
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.4.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.4.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Address
- TON: International number
- NPI: ISDN / telephone numbering plan
- Dialling number string: "112233445566778"

Bearer description
- Bearer type: CSD

Bearer parameter
Data rate: 9600bps V.110 or X.31 flag stuffing
Bearer service: data circuit asynchronous UDI
Connection element: non-transparent
Buffer size 1400 bytes~~42~~

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	47	00	01	B9	02	0500	782~~A~~				

TERMINAL RESPONSE: OPEN CHANNEL 1.4.1

Logically:
Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer Description
Bearer Parameter
Data rate: 9600bps V.110 or X.31 flag stuffing
Bearer Service: data circuit asynchronous UDI
Connection Element: non-transparent
Buffer size 1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	~~01~~00	B5	04	01	47	00	01	B9	02
	0500	782~~A~~										

Expected Sequence 1.5 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.32, bearer asynchronous RDI)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.5.1	
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.5.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.5.1

Logically:
Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment

Device identities
Source device: SIM
Destination device: ME
Address
TON: International number
NPI: ISDN / telephone numbering plan
Dialling number string "112233445566778"
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 9600bps V.32
Bearer service: data circuit asynchronous RDI
Connection element: non-transparent
Buffer size 1400 bytes42

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	04	01	B9	02	0500	782A				

TERMINAL RESPONSE: OPEN CHANNEL 1.5.1

Logically:
Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer Description
Bearer Parameter
Data rate: 9600bps V.32
Bearer Service: data circuit asynchronous RDI
Connection Element: non-transparent
Buffer size 1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	0100	B5	04	01	07	04	01	B9	02
	0500	782A										

Expected Sequence 1.6 (OPEN CHANNEL, immediate link establishment, CSD, 9600bps V.32, bearer asynchronous)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.6.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.6.1	
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.6.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.6.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Address
- TON: International number
- NPI: ISDN / telephone numbering plan
- Dialling number string "112233445566778"

Bearer description
- Bearer type: CSD

Bearer parameter
- Data rate: 9600bps V.32
- Bearer service: data circuit asynchronous
- Connection element: both, transparent preferred

Buffer size 1400 bytes~~42~~

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	02	B9	02	0500	782A				

TERMINAL RESPONSE: OPEN CHANNEL 1.6.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: Command performed successfully

Channel status Channel identifier 1 and link established or PDP context activated

Bearer Description

Bearer Parameter
- Data rate: 9600bps V.32
- Bearer Service: data circuit asynchronous
- Connection Element: both, transparent preferred

Buffer size 1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	0100	B5	04	01	07	00	02	B9	02
	0500	782A										

Expected Sequence 1.7(OPEN CHANNEL, immediate link establishment, CSD, 9600 bps, performed with modification)

The system simulator shall be configured such that open channel requests will be accepted with modification

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.7.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.7.1	
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.7.1	[Command performed with modification]

PROACTIVE COMMAND: OPEN CHANNEL 1.7.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Address
- TON: International number
- NPI: ISDN / telephone numbering plan
- Dialling number string "112233445566778"

Bearer description
- Bearer type: CSD
- Bearer parameter
  - Data rate: 64000bps X.31
  - Bearer service: data circuit asynchronous UDI
  - Connection element: non-transparent

Buffer size 1400 bytes~~42~~

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	54	00	01	B9	02	05~~00~~	78~~2A~~				

TERMINAL RESPONSE: OPEN CHANNEL 1.7.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: Command performed with modification

Channel status Channel identifier 1 and link established or PDP context activated

Bearer description
- Bearer type: CSD
- Bearer parameter
  - Data rate: 9600bps V.32

Bearer service: data circuit asynchronous
Connection element: non-transparent
Buffer size 1400 bytes~~42~~

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	07
	B8	02	81	~~01~~00	B5	04	01	07	00	01	B9	02
	05~~00~~	78~~2A~~										

Expected Sequence 1.8 (OPEN CHANNEL, immediate link establishment, CSD, Network currently unable to process command)

The system simulator shall be configured such that open channel requests will be rejected with "No specific cause can be given".

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.8.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.8.1	
4	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.8.1	[Network currently unable to process command]

PROACTIVE COMMAND: OPEN CHANNEL 1.8.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: SIM
Destination device: ME
Address
TON: International number
NPI: ISDN / telephone numbering plan
Dialling number string "112233445566778"
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 64000bps X.31
Bearer service: data circuit asynchronous UDI
Connection element: non-transparent
Buffer size 1400 bytes~~42~~

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	54	00	01	B9	02	05~~00~~	78~~2A~~				

TERMINAL RESPONSE: OPEN CHANNEL 1.8.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM

Result
General Result: Network currently unable to process command
Additional info: No specific cause can be given
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 64000bps X.31
Bearer service: data circuit asynchronous UDI
Connection element: non-transparent
Buffer size 1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	02	21
	00	B5	04	01	54	00	01	B9	02	05	78	

Expected Sequence 1.9 (OPEN CHANNEL, immediate link establishment, CSD, No channel available)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.9.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.9.1	
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.9.1	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.9.2	
8	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.9.2	[Bearer independent protocol error]

PROACTIVE COMMAND: OPEN CHANNEL 1.9.1

Logically:
Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: SIM
Destination device: ME
Address
TON: International number
NPI: ISDN / telephone numbering plan
Dialling number string "112233445566778"
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 56000bps V.120
Bearer service: data circuit asynchronous UDI
Connection element: non-transparent
Buffer size 1400 bytes~~42~~

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	33	00	01	B9	02	05~~00~~	78~~2A~~				

TERMINAL RESPONSE: OPEN CHANNEL 1.9.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: Command performed successfully

Channel status: Channel identifier 1 and link established or PDP context activated

Bearer description
- Bearer type: CSD
- Bearer parameter
  - Data rate: 56000bps V.120
  - Bearer service: data circuit asynchronous
  - Connection element: non-transparent

Buffer size: 1400 bytes~~42~~

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	~~01~~00	B5	04	01	33	00	01	B9	02
	0500	782~~A~~										

PROACTIVE COMMAND: OPEN CHANNEL 1.9.2

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Address
- TON: International number
- NPI: ISDN / telephone numbering plan
- Dialling number string "112233445566778"

Bearer description
- Bearer type: CSD
- Bearer parameter
  - Data rate: 56000bps V.120
  - Bearer service: data circuit asynchronous UDI
  - Connection element: non-transparent

Buffer size: 1400 bytes~~42~~

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	33	00	01	B9	02	0500	782~~A~~				

TERMINAL RESPONSE: OPEN CHANNEL 1.9.2

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

Device identities

Source device: ME
Destination device: SIM
Result
General Result: Bearer Independent Protocol error
Additional info: No channel available
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 56000bps V.120
Bearer service: data circuit asynchronous UDI
Connection element: non-transparent
Buffer size 1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	02	3A
	01	B5	04	01	33	00	01	B9	02	05	78	

Expected Sequence 1.10 (OPEN CHANNEL, ME is busy on another call related to CSD)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.10.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.10.1	
4	ME → USER	ME displays "Not busy" and prompts the user to set up a call to "+012340123456p1p2"	
5	USER → ME	The user confirms the call set up	[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: SET UP CALL 1.10.1	[Command performed successfully]
9	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
10	ME → SIM	FETCH	
11	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL (immediate) 1.1.1	
12	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL (immediate) 1.10.1	[ME currently unable to process command]

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
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 1.10.1

Logically:

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

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

Result
- General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: OPEN CHANNEL 1.10.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: ME currently unable to process command
- Additional info: ME currently busy on call

Bearer description
- Bearer type: CSD
- Bearer parameter
  - Data rate: 9600bps V.32
  - Bearer service: data circuit asynchronous UDI
  - Connection element: non-transparent

Buffer size 1400 bytes

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	02	20
	02	B5	04	01	07	00	01	B9	02	05	78	

27.22.4.27.2 Open Channel (related to GPRS)

27.22.4.27.2.2 Definition and applicability

See clause 3.2.2.

27.22.4.27.2.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 11.14 [15].

27.22.4.27.2.3 Test purpose

27.22.4.27.2.4 Method of test

27.22.4.27.2.4.1 Initial conditions

The ME is connected to the SIM Simulator and the System Simulator. The elementary files are coded as Toolkit default.
Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.
The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 51.010-1 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

SIM/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.27.2.4.2 Procedure

Expected Sequence 2.1 (OPEN CHANNEL, immediate link establishment, GPRS, no local address, no alpha identifier, no network access name)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.1.1	
4	ME → user	Confirmation phase	
5	user → ME	The user confirms	
6	ME → SS	SETUP CALL	
7	SS → ME	CONNECTED	
8	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.1.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

Device identities
Source device: SIM
Destination device: ME
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Text String: UserLog (User login)
Text String: UserPwd (User password)
SIM/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	05	78
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.1.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

Expected Sequence 2.2 (OPEN CHANNEL, immediate link establishment GPRS, no alpha identifier, with network access name)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.2.1	
4	ME → user	Confirmation phase	
5	user → ME	The user confirms	
6	ME → SS	SETUP CALL	
7	SS → ME	CONNECTED	
8	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.2.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.2.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Bearer
- Bearer type: GPRS
- Bearer parameter:
  - Precedence Class: 02
  - Delay Class: 04
  - Reliability Class: 05
  - Peak throughput class: 05
  - Mean throughput class: 16
  - Packet data protocol: 02 (IP)

Buffer
- Buffer size: 1400

Network access name: .TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

SIM/ME interface transport level
- Transport format: UDP
- Port number: 44444

Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	05	78
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.2.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer Description:
Bearer Type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

Expected Sequence 2.3 (OPEN CHANNEL, immediate link establishment, GPRS, with alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.3.1	
4	ME → user	Confirmation phase with alpha ID	"Open ID"
5	user → ME	The user confirms	
6	ME → SS	SETUP CALL	
7	SS → ME	CONNECTED	
8	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.3.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: SIM
Destination device: ME
Alpha Identifier Open ID
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04

Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400
Network access name: .TestGp.rs
Text String: UserLog (User login)
Text String: UserPwd (User password)
SIM/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	4B	81	03	01	40	01	82	02	81	82	05
	07	4F	70	65	6E	20	49	44	35	07	02	02
	04	05	05	10	02	39	02	05	78	47	0A	06
	54	65	73	74	47	70	02	72	73	0D	08	F4
	55	73	65	72	4C	6F	67	0D	08	F4	55	73
	65	72	50	77	64	3C	03	01	AD	9C	3E	05
	21	01	01	01	01							

Expected Sequence 2.4 (OPEN CHANNEL, immediate link establishment, GPRS, with null alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.4.1	
4	ME → user	Confirmation phase	
5	user → ME	The user confirms	
6	ME → SS	SETUP CALL	
7	SS → ME	CONNECTED	
8	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 2.4.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Alpha Identifier: Null

Bearer
- Bearer type: GPRS
- Bearer parameter:
  - Precedence Class: 02
  - Delay Class: 04
  - Reliability Class: 05
  - Peak throughput class: 05
  - Mean throughput class: 16
  - Packet data protocol: 02 (IP)

Buffer
- Buffer size: 1400

Network access name: . TestGp.rs

Other Address
- Length: 00

Text String: UserLog (User login)

Text String: UserPwd (User password)

SIM/ME interface transport level
- Transport format: UDP
- Port number: 44444

Data destination address: 01.01.01.01

Coding:

BER-TLV:	D0	46	81	03	01	40	01	82	02	81	82	05
	00	35	07	02	02	04	05	05	10	02	39	02
	05	78	47	0A	06	54	65	73	74	47	70	02
	6F	67	3E	00	0D	08	F4	55	73	65	72	4C
	6F	67	0D	08	F4	55	73	65	72	50	77	64
	3C	03	01	AD	9C	3E	05	21	01	01	01	01

Expected Sequence 2.5 (OPEN CHANNEL, immediate link establishment, GPRS, command performed with modifications (buffer size))

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.5.1	
4	ME → user	Confirmation phase	
5	user → ME	The user confirms	
6	ME → SS	SETUP CALL	
7	SS → ME	CONNECTED	
8	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.5.1	[Command performed with modification]

PROACTIVE COMMAND: OPEN CHANNEL 2.5.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Bearer
- Bearer type: GPRS
- Bearer parameter:
  - Precedence Class: 02
  - Delay Class: 04
  - Reliability Class: 05
  - Peak throughput class: 05
  - Mean throughput class: 16
  - Packet data protocol: 02 (IP)

Buffer
- Buffer size: 2000

Network access name: .TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

SIM/ME interface transport level
- Transport format: UDP
- Port number: 44444

Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	07	D0
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.5.1

Logically:

Command details
- Command number: 1

Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed with modifications (07)
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	07
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	05	78							

Expected Sequence 2.6 (OPEN CHANNEL, immediate link establishment, GPRS, User did not accept the proactive command)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.6.1	
4	ME → user	Confirmation phase	
5	user → ME	User rejects	
6	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.6.1	[User did not accept the proactive command]

PROACTIVE COMMAND: OPEN CHANNEL 2.6.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: SIM
Destination device: ME
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)

Buffer
Buffer size: 1400
Text String: UserLog (User login)
Text String: UserPwd (User password)
SIM/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	05	78
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.6.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: User did not accept the proactive command
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	22
	35	07	02	02	04	05	05	10	02	39	02	05
	78											

Expected Sequence 2.7 (OPEN CHANNEL, immediate link establishment, GPRS, open command with alpha identifier, User did not accept the proactive command)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.7.1	
4	ME → user	Confirmation phase with alpha ID	
5	user → ME	The user rejects	
6	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.6.1	[User did not accept the proactive command]

PROACTIVE COMMAND: OPEN CHANNEL 2.7.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Alpha Identifier: Open ID

Bearer
- Bearer type: GPRS
- Bearer parameter:
  - Precedence Class: 02
  - Delay Class: 04
  - Reliability Class: 05
  - Peak throughput class: 05
  - Mean throughput class: 16
  - Packet data protocol: 02 (IP)

Buffer
- Buffer size: 1400

Text String: UserLog (User login)

Text String: UserPwd (User password)

SIM/ME interface transport level
- Transport format: UDP
- Port number: 44444

Data destination address: 01.01.01.01

Coding:

BER-TLV:	D0	3F	81	03	01	40	01	82	02	81	82	05
	07	6F	70	65	6E	20	49	44	35	07	02	02
	04	05	05	10	02	39	02	05	78	0D	08	F4
	55	73	65	72	4C	6F	67	0D	08	F4	55	73
	65	72	50	77	64	3C	03	01	AD	9C	3E	05
	21	01	01	01	01							

Expected Sequence 2.8 (OPEN CHANNEL, immediate link establishment, GPRS, ME busy on call)

Step	Direction	MESSAGE / Action	Comments
1	User → ME	Set up a call	
2	ME → SS	SETUP CALL	
3	SS → ME	CONNECTED	
4	SIM → ME	PROACTIVE COMMAND PENDING	
5	ME → SIM	FETCH	
6	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.8.1	
7	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.8.1	[ME busy on call]

PROACTIVE COMMAND: OPEN CHANNEL 2.8.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Bearer
- Bearer type: GPRS
- Bearer parameter:
  - Precedence Class: 02
  - Delay Class: 04
  - Reliability Class: 05
  - Peak throughput class: 05
  - Mean throughput class: 16
  - Packet data protocol: 02 (IP)

Buffer
- Buffer size: 1400

Text String: UserLog (User login)

Text String: UserPwd (User password)

SIM/ME interface transport level
- Transport format: UDP
- Port number: 44444

Data destination address: 01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	05	78
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 2.8.1

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

Device identities

Source device: ME
Destination device: SIM
Result
General Result: ME currently unable to process command
Additional info: ME busy on call
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	02	20
	02	35	07	02	02	04	05	05	10	02	39	02
	05	78										

27.22.4.27.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.10 and 2.1 to 2.8.

27.22.4.28 CLOSE CHANNEL

27.22.4.28.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 11.14 [15].

27.22.4.28.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or
- TERMINAL RESPONSE (Bearer Independent Protocol Error);

to the SIM after the ME receives the CLOSE CHANNEL proactive command. The TERMINAL RESPONSE sent back to the SIM is function of the ME and the network capabilities against asked parameters by the SIM.

27.22.4.28.4 Method of Test

27.22.4.28.4.1 Initial conditions

The ME is connected to the SIM Simulator and the System Simulator. The elementary files are coded as Toolkit default.
Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 51.010-1 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs

User login: UserLog
User password: UserPwd

SIM/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.4.28.4.2 Procedure

Expected sequence 1.1 (CLOSE CHANNEL, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B~~(immediate) 1.1.1~~	~~[Immediate link establishment, CSD, 9600bps V.32~~]
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B~~(immediate) 1.1.1~~	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1	
10	ME → SS	DISCONNECT	[MO DISCONNECT]
11	ME → SIM	TERMINAL RESPONSE CLOSE CHANNEL 1.1.1	[Command performed successfully]

~~PROACTIVE COMMAND: OPEN CHANNEL 1.1.1~~

~~Logically:~~
~~Command details~~
~~Command number: 1~~
~~Command type: OPEN CHANNEL~~
~~Command qualifier: immediate link establishment~~
~~Device identities~~
~~Source device: SIM~~
~~Destination device: ME~~
~~Address~~
~~TON: International number~~
~~NIPNPI: ISDN / telephone numbering plan~~
~~Dialling number string "112233445566778"~~
~~Bearer description~~
~~Bearer type: CSD~~
~~Bearer parameter~~
~~Data rate: 9600bps V.32~~
~~Bearer service: data circuit asynchronous UDI~~
~~Connection element: non-transparent~~
~~Buffer size 42~~

~~Coding:~~

~~BER-TLV:~~	~~D0~~	~~1E~~	~~81~~	~~03~~	~~01~~	~~40~~	~~01~~	~~82~~	~~02~~	~~81~~	~~82~~	~~86~~
	~~09~~	~~91~~	~~11~~	~~22~~	~~33~~	~~44~~	~~55~~	~~66~~	~~77~~	~~F8~~	~~B5~~	~~04~~
	~~01~~	~~07~~	~~00~~	~~01~~	~~B9~~	~~02~~	~~00~~	~~2A~~				

~~TERMINAL RESPONSE: OPEN CHANNEL 1.1.1~~

~~Logically:~~

~~Command details~~
~~Command number: 1~~
~~Command type: OPEN CHANNEL~~
~~Command qualifier: immediate link establishment~~
~~Device identities~~
~~Source device: ME~~
~~Destination device: SIM~~
~~Result~~
~~General Result: Command performed successfully~~
~~Channel status Channel identifier 1 and link established~~
~~Bearer description~~
~~Bearer type: CSD~~
~~Bearer parameter~~
~~Data rate: 9600bps V.32~~
~~Bearer service: data circuit asynchronous~~
~~Connection element: non-transparent~~
~~Buffer size 42~~

~~Coding:~~

~~BER-TLV:~~	~~81~~	~~03~~	~~01~~	~~40~~	~~01~~	~~82~~	~~02~~	~~82~~	~~81~~	~~83~~	~~01~~	~~00~~
	~~B8~~	~~02~~	~~81~~	~~01~~	~~B5~~	~~04~~	~~01~~	~~07~~	~~00~~	~~01~~	~~B9~~	~~02~~
	~~00~~	~~2A~~										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: SIM
Destination device: ME
Address
TON: International number
NPI: ISDN / telephone numbering plan
Dialling number string "112233445566778"
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 9600bps V.32
Bearer service: data circuit asynchronous UDI
Connection element: non-transparent
Buffer size 1000

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: Command performed successfully

Channel status: Channel identifier 1 and link established

Bearer description
- Bearer type: CSD

Bearer parameter
- Data rate: 9600bps V.32
- Bearer service: data circuit asynchronous
- Connection element: non-transparent

Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02
	03	E8										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Bearer
- Bearer type: GPRS
- Bearer parameter:
  - Precedence Class: 02
  - Delay Class: 04
  - Reliability Class: 05
  - Peak throughput class: 05
  - Mean throughput class: 16
  - Packet data protocol: 02 (IP)

Buffer
- Buffer size: 1000

Text String: UserLog (User login)

Text String: UserPwd (User password)

SIM/ME interface transport level
- Transport format: UDP
- Port number: 44444

Data destination address: 01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: Command performed successfully

Channel status: Channel identifier 1 and link established or PDP context activated

Bearer description
- Bearer type: GPRS
- Bearer parameter:
  - Precedence Class: 02
  - Delay Class: 04
  - Reliability Class: 05
  - Peak throughput class: 05
  - Mean throughput class: 16
  - Packet data protocol: 02 (IP)

Buffer
- Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1

Logically:

Command details
- Command number: 1
- Command type: CLOSE CHANNEL
- Command qualifier: RFU

Device identities
- Source device: SIM
- Destination device: Channel 1

Coding:

BER-TLV:	D0	09	81	03	01	41	00	82	02	81	21

TERMINAL RESPONSE: CLOSE CHANNEL 1.1.1

Logically:

Command details
- Command number: 1
- Command type: CLOSE CHANNEL

Command qualifier: RFU
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00

Expected sequence 1.2 (CLOSE CHANNEL, with an invalid channel identifier)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B~~(immediate) 1.1.1~~	~~[Immediate link establishment, CSD, 9600bps V.32]~~
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B~~(immediate) 1.1.1~~	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.2.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1	
10	ME → SIM	TERMINAL RESPONSE CLOSE CHANNEL 1.2.1	[Invalid channel number]

PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1

Logically:
Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: SIM
Destination device: Channel 2

Coding:

BER-TLV:	D0	09	81	03	01	41	00	82	02	81	22

TERMINAL RESPONSE: CLOSE CHANNEL 1.2.1

Logically:
Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU

Device identities
Source device: ME
Destination device: SIM
Result
General Result: Bearer Independent Protocol error
Additional Result: Channel identifier not valid

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	02	3A
	03											

Expected sequence 1.3 (CLOSE CHANNEL, on an already closed channel)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B ~~(immediate) 1.1.1~~	~~[Immediate link establishment, CSD, 9600bps V.32~~]
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B~~(immediate) 1.1.1~~	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1	
10	ME → SS	DISCONNECT	[MO DISCONNECT]
11	ME → SIM	TERMINAL RESPONSE CLOSE CHANNEL 1.1.1	[Command performed successfully]
12	SIM → ME	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.3.1	
13	ME → SIM	FETCH	
14	SIM → ME	PROACTIVE COMMAND: CLOSE CHANNEL 1.3.1	
15	ME → SIM	TERMINAL RESPONSE CLOSE CHANNEL 1.3.1	[Channel closed]

PROACTIVE COMMAND: CLOSE CHANNEL 1.3.1

Logically:
Command details
Command number: 1
Command type: CLOSE CHANNEL
Command qualifier: RFU
Device identities
Source device: SIM
Destination device: Channel 1

Coding:

BER-TLV:	D0	09	81	03	01	41	00	82	02	81	21

TERMINAL RESPONSE: CLOSE CHANNEL 1.3.1

Logically:

Command details
- Command number: 1
- Command type: CLOSE CHANNEL
- Command qualifier: RFU

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

Result
- General Result: Bearer Independent Protocol error
- Additional Result: Channel closed

Coding:

BER-TLV:	81	03	01	41	00	82	02	82	81	83	02	3A
	02											

27.22.4.28.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

27.22.4.29 RECEIVE DATA

27.22.4.29.1 Definition and applicability

See clause 3.2.2.

27.22.4.29.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 11.14 [15].

27.22.4.29.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or
- TERMINAL RESPONSE (ME currently unable to process command); or
- TERMINAL RESPONSE (Bearer Independent Protocol Error);

to the SIM after the ME receives the RECEIVE DATA proactive command. The TERMINAL RESPONSE sent back to the SIM is function of the ME and the network capabilities against asked parameters by the SIM.

27.22.4.29.4 Method of test

27.22.4.29.4.1 Initial conditions

The ME is connected to the SIM Simulator and the System Simulator. The elementary files are coded as Toolkit default.
Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 51.010-1 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

SIM/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.29.4.2 Procedure

Expected sequence 1.1 (RECEIVE DATA, already opened channel)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL ~~(immediate)~~ 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	~~[Immediate link establishment, CSD, 9600bps V.32]~~
8	ME → SS	SETUP CALL	
9	SS → ME	CONNECTED	
10	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B~~(immediate)~~	[Command performed successfully]
11	SS → ME	Transfer of 1kB data to the ME through channel 1	
12	ME → SIM	ENVELOPE (Data Available)	(1 kB of data in the ME buffer)
13	SIM → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.1	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.1	200 Bytes
16	ME → SIM	TERMINAL RESPONSE: RECEIVE DATA 1.1.1	
17	SIM → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.2	
18	ME → SIM	FETCH	
19	SIM → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.2	200 Bytes
20	ME → SIM	TERMINAL RESPONSE: RECEIVE DATA 1.1.2	
21	SIM → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.3	
22	ME → SIM	FETCH	
23	SIM → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.3	200 Bytes
24	ME → SIM	TERMINAL RESPONSE: RECEIVE DATA 1.1.3	
25	SIM → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.4	
26	ME → SIM	FETCH	
27	SIM → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.4	200 Bytes
28	ME → SIM	TERMINAL RESPONSE: RECEIVE DATA 1.1.4	
29	SIM → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.5	
30	ME → SIM	FETCH	
31	SIM → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.5	200 Bytes
32	ME → SIM	TERMINAL RESPONSE: RECEIVE DATA 1.1.5	

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Address
- TON: International number

NPI: ISDN / telephone numbering plan
Dialling number string "112233445566778"
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 9600bps V.32
Bearer service: data circuit asynchronous UDI
Connection element: non-transparent
Buffer size 1000

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:
Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 9600bps V.32
Bearer service: data circuit asynchronous
Connection element: non-transparent
Buffer size 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02
	03	E8										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B
Logically:
Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: SIM
Destination device: ME
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16

Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000
Text String: UserLog (User login)
Text String: UserPwd (User password)
SIM/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

27.22.4.30 SEND DATA

27.22.4.30.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 11.14 [15].

27.22.4.30.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or
- TERMINAL RESPONSE (ME currently unable to process command); or
- TERMINAL RESPONSE (Bearer Independent Protocol Error);

to the SIM after the ME receives the SEND DATA proactive command. The TERMINAL RESPONSE sent back to the SIM is function of the ME and the network capabilities against asked parameters by the SIM.

27.22.4.30.4 Method of test

27.22.4.30.4.1 Initial conditions

The ME is connected to the SIM Simulator and the System Simulator. The elementary files are coded as Toolkit default.
Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 51.010-1 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

SIM/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.4.30.4.2 Procedure

Expected sequence 1.1 (SEND DATA, immediate mode)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL ~~(immediate)~~ 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	~~[Immediate link establishment, CSD, 9600bps V.32, 1KB buffer]~~
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B ~~(immediate) 1.1.1~~	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
10	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Address
- TON: International number
- NPI: ISDN / telephone numbering plan
- Dialling number string "112233445566778"

Bearer description
- Bearer type: CSD

Bearer parameter
- Data rate: 9600bps V.32
- Bearer service: data circuit asynchronous UDI
- Connection element: non-transparent

Buffer size 1000

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: Command performed successfully

Channel status Channel identifier 1 and link established

Bearer description
- Bearer type: CSD

Bearer parameter
- Data rate: 9600bps V.32
- Bearer service: data circuit asynchronous
- Connection element: non-transparent

Buffer size 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02
	03	E8										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Bearer
- Bearer type: GPRS
- Bearer parameter:
  - Precedence Class: 02
  - Delay Class: 04
  - Reliability Class: 05
  - Peak throughput class: 05
  - Mean throughput class: 16
  - Packet data protocol: 02 (IP)

Buffer
- Buffer size: 1000

Text String: UserLog (User login)
Text String: UserPwd (User password)
SIM/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

Expected sequence 1.2 (SEND DATA, Store mode)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B ~~1.1.1~~	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL ~~(immediate)~~ 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	~~[Immediate link establishment, CSD, 9600bps V.32, 1KB buffer]~~
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B ~~(immediate) 1.1.1~~	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.2.1	Send 500 Bytes of data (200 + 200 + 100)
10	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.2.1	[Command performed successfully]
11	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.2	
12	ME → SIM	FETCH	
13	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.2.2	
14	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.2.2	[Command performed successfully]
15	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.2.3	
16	ME → SIM	FETCH	
17	SIM → ME	PROACTIVE COMMAND: SEND DATA (Immediate mode) 1.2.3	
18	ME → SIM	TERMINAL RESPONSE: SEND DATA (Immediate mode) 1.2.3	[Command performed successfully]

Expected sequence 1.3 (SEND DATA, Store mode, Tx buffer fully used)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL ~~(immediate)~~ 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	~~[Immediate link establishment, CSD, 9600bps V.32, 1KB buffer]~~
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B ~~(immediate) 1.1.1~~	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1kByte of data by packet of 200 Bytes
10	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
11	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
12	ME → SIM	FETCH	
13	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
14	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
15	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
16	ME → SIM	FETCH	
17	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
18	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
19	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
20	ME → SIM	FETCH	
21	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
22	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
23	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	
24	ME → SIM	FETCH	
25	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
26	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]

Expected sequence 1.4 (SEND DATA, 2 consecutive SEND DATA Store mode)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL ~~(immediate)~~ 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	~~[Immediate link establishment, CSD, 9600bps V.32, 1KB buffer]~~
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B ~~(immediate) 1.1.1~~	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1kByte of data by packet of 200 Bytes
10	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
11	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
12	ME → SIM	FETCH	
13	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
14	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
15	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
16	ME → SIM	FETCH	
17	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
18	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
19	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
20	ME → SIM	FETCH	
21	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
22	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
23	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	…
24	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	
25	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]
26	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
27	ME → SIM	FETCH	
28	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1kByte of data by packet of 200 Bytes
29	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
30	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
31	ME → SIM	FETCH	
32	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
33	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]

34	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
35	ME → SIM	FETCH	
36	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
37	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
38	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
39	ME → SIM	FETCH	
40	SIM → ME	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
41	ME → SIM	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
42	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	…
43	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	
44	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]

Expected sequence 1.5 (SEND DATA, immediate mode with a bad channel identifier)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL ~~(immediate)~~ 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	~~[Immediate link establishment, CSD, 9600bps V.32, 1KB buffer]~~
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B~~(immediate) 1.1.1~~	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: SEND DATA 1.5.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.5.1	
10	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Invalid~~e~~ channel number]

Expected sequence 1.6 (SEND DATA, immediate mode, Proactive SIM session terminated by the user)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL ~~(immediate)~~ 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	~~[Immediate link establishment, CSD, 9600bps V.32, 1KB buffer]~~
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B ~~(immediate) 1.1.1~~	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING; SEND DATA 1.6.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: SEND DATA (immediate) 1.6.1	
10	ME → USER	ME displays “Send data”	
11	USER → ME	Abort proactive session	
12	ME → SIM	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Proactive SIM session terminated by the user]

27.22.4.31 GET CHANNEL STATUS

27.22.4.31.1 Definition and applicability

See clause 3.2.2.

27.22.4.31.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 11.14 [15].

27.22.4.31.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (Command Performed Successfully) to the SIM after the ME receives the GET STATUS proactive command. The TERMINAL RESPONSE sent back to the SIM is function of the ME and the network capabilities against asked parameters by the SIM.

27.22.4.31.4 Method of test

27.22.4.31.4.1 Initial conditions

The ME is connected to the SIM Simulator and the System Simulator. The elementary files are coded as Toolkit default.
Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 51.010-1 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

SIM/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

Expected sequence 1.2 (GET STATUS, with a BIP channel currently opened)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL ~~1.2.1~~1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL ~~(immediate)~~ 1.1~~2~~.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	~~[Immediate link establishment, CSD, 9600bps V.32~~]
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B ~~(immediate) 1.2.1~~	[Command performed successfully]
7	SIM → ME	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 1.2.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: GET STATUS 1.2.1	
10	ME → SIM	TERMINAL GET STATUS 1.2.1	[Command performed successfully]

~~PROACTIVE COMMAND: OPEN CHANNEL 1.2.1~~

~~Logically:~~

~~Command details~~
~~Command number: 1~~
~~Command type: OPEN CHANNEL~~
~~Command qualifier: immediate link establishment~~
~~Device identities~~
~~Source device: SIM~~
~~Destination device: ME~~
~~Address~~
~~TON: International number~~
~~NPI: ISDN / telephone numbering plan~~
~~Dialling number string "112233445566778"~~
~~Bearer description~~
~~Bearer type: CSD~~
~~Bearer parameter~~
~~Data rate: 9600bps V.32~~
~~Bearer service: data circuit asynchronous UDI~~
~~Connection element: non-transparent~~
~~Buffer size 42~~

~~Coding:~~

~~BER-TLV:~~	~~D0~~	~~1E~~	~~81~~	~~03~~	~~01~~	~~40~~	~~01~~	~~82~~	~~02~~	~~81~~	~~82~~	~~86~~
	~~09~~	~~91~~	~~11~~	~~22~~	~~33~~	~~44~~	~~55~~	~~66~~	~~77~~	~~F8~~	~~B5~~	~~04~~
	~~01~~	~~07~~	~~00~~	~~01~~	~~B9~~	~~02~~	~~00~~	~~2A~~				

~~TERMINAL RESPONSE: OPEN CHANNEL 1.2.1~~

~~Logically:~~

~~Command details~~
~~Command number: 1~~

~~Command type: OPEN CHANNEL~~
~~Command qualifier: immediate link establishment~~
~~Device identities~~
~~Source device: ME~~
~~Destination device: SIM~~
~~Result~~
~~General Result: Command performed successfully~~
~~Channel status Channel identifier 1 and link established~~
~~Bearer description~~
~~Bearer type: CSD~~
~~Bearer parameter~~
~~Data rate: 9600bps V.32~~
~~Bearer service: data circuit asynchronous~~
~~Connection element: non-transparent~~
~~Buffer size 42~~

~~Coding:~~

~~BER-TLV:~~	~~81~~	~~03~~	~~01~~	~~40~~	~~01~~	~~82~~	~~02~~	~~82~~	~~81~~	~~83~~	~~01~~	~~00~~
	~~B8~~	~~02~~	~~81~~	~~01~~	~~B5~~	~~04~~	~~01~~	~~07~~	~~00~~	~~01~~	~~B9~~	~~02~~
	~~00~~	~~2A~~										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: SIM
Destination device: ME
Address
TON: International number
NPI: ISDN / telephone numbering plan
Dialling number string "112233445566778"
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 9600bps V.32
Bearer service: data circuit asynchronous UDI
Connection element: non-transparent
Buffer size 1000

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM

Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established
Bearer description
Bearer type: CSD
Bearer parameter
Data rate: 9600bps V.32
Bearer service: data circuit asynchronous
Connection element: non-transparent
Buffer size 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02
	03	E8										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: SIM
Destination device: ME
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000
Text String: UserLog (User login)
Text String: UserPwd (User password)
SIM/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME

Destination device: SIM
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

PROACTIVE COMMAND: GET STATUS 1.2.1

Logically:

Command details
Command number: 1
Command type: GET STATUS
Command qualifier: RFU
Device identities
Source device: SIM
Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	44	00	82	02	81	82

TERMINAL RESPONSE: GET STATUS 1.2.1

Logically:

Command details
Command number: 1
Command type: GET STATUS
Command qualifier: RFU
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status
Channel status: Channel 1 open, link established

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	81	00								

Expected sequence 1.3 (GET STATUS, after a link dropped)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1~~2~~.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B~~1.2.1~~	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL ~~(immediate)~~ 1.~~2~~1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	~~[Immediate link establishment, CSD, 9600bps V.32]~~
4	ME → SS	SETUP CALL	
5	SS → ME	CONNECTED	
6	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B~~(immediate) 1.2.1~~	[Command performed successfully]
7	SS → ME	DROP LINK	
8	ME → SIM	ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1	[Link dropped]
9	SIM → ME	PROACTIVE COMMAND PENDING: GET STATUS 1.3.1	
10	ME → SIM	FETCH	
11	SIM → ME	PROACTIVE COMMAND: GET STATUS 1.3.1	
12	ME → SIM	TERMINAL GET STATUS 1.3.1	[Command performed successfully]

27.22.7.10 Data available event

27.22.7.10.1 Definition and applicability

See clause 3.2.2.

27.22.7.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 11.14 [15].

Additionally the ME shall support ENVELOPE (EVENT DOWNLOAD - Data available).

27.22.7.10.3 Test purpose

To verify that the ME shall send an ENVELOPE (EVENT DOWNLOAD - Data available) to the SIM after the ME receives a packet of data from the server by the BIP channel previously opened.

27.22.7.10.4 Method of test

27.22.7.10.4.1 Initial conditions

The ME is connected to the SIM Simulator. 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 SIM must have sent the SET UP EVENT LIST to the ME to supply a set of events (event Data available).

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 51.010-1 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog

User password: UserPwd

SIM/ME interface transport level

Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

27.22.7.10.4.2 Procedure

Expected sequence 1.1 (EVENT DOWNLOAD - Data available)

~~For that test, it is assumed that an OPEN CHANNEL proactive command has been successfully executed (with a consistent SIM buffer size).~~

Step	Direction	MESSAGE / Action	Comments
~~1~~	~~SERVER → ME~~	~~Data sent through the BIP channel~~	
~~2~~	~~ME → SIM~~	~~ENVELOPE 1.1.1 (Event-Data Available)~~	
1	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	[Command performed successfully]
4	SS → ME	Data sent through the BIP channel	
5	ME → SIM	ENVELOPE 1.1.1 (Event-Data Available)	

ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1

Logically:

Event list
Event: Data available
Device identities
Source device: ME
Destination device: SIM
Channel status
Channel status: Channel 1 open, link established
Channel Data Length
Channel data length: 8 Bytes available in Rx buffer

Coding:

BER-TLV:	D6	0E	99	01	09	82	02	82	81	B8	02	81
	00	B7	01	08								

27.22.7.11 Channel Status event

27.22.7.11.1 Definition and applicability

See clause 3.2.2.

27.22.7.11.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- 3GPP TS 11.14 [15].

Additionally the ME shall support ENVELOPE (EVENT DOWNLOAD - Channel Status).

27.22.7.11.3 Test purpose

To verify that the ME shall send an ENVELOPE (EVENT DOWNLOAD - Channel Status) to the SIM after the link dropped between the NETWORK and the ME.

27.22.7.11.4 Method of test

27.22.7.11.4.1 Initial conditions

The ME is connected to the SIM Simulator and the System Simulator. The elementary files are coded as Toolkit default.
Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to CSD (i.e condition C113 in table B.1), the PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A.

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 51.010-1 [12], for test cases using packet services:

Bearer Parameters

Precedence Class:	02
Delay Class:	04
Reliability Class:	05
Peak throughput class:	05
Mean throughput class:	16
Packet data protocol:	02 (IP)

GPRS Parameters

Network access name:	TestGp.rs
User login:	UserLog
User password:	UserPwd

SIM/ME interface transport level

Transport format:	UDP
Port number:	44444
Data destination address	01.01.01.01

27.22.7.11.4.2 Procedure

Expected sequence 1.1 (EVENT DOWNLOAD - Channel Status on a link dropped)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: channel status]
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1B	See initial conditions
6	ME → SIM	FETCH	
7	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL ~~(immediate)~~ 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8	ME → SS	SETUP CALL	
9	SS → ME	CONNECTED	
10	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B ~~(immediate) 1.1.1~~	[Command performed successfully]
11	NETWORK → ME	Link dropped	
12	ME → SIM	ENVELOPE 1.1.1 (Event-Channel Status)	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Event list
- Event 1: Channel Status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	0A								

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Result

General Result: Command performed successfully

Coding:

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

~~PROACTIVE COMMAND: OPEN CHANNEL 1.1.1~~

~~Logically:~~

~~Command details~~
~~Command number: 1~~
~~Command type: OPEN CHANNEL~~
~~Command qualifier: immediate link establishment~~
~~Device identities~~
~~Source device: SIM~~
~~Destination device: ME~~
~~Address~~
~~TON: International number~~
~~NPI: ISDN / telephone numbering plan~~
~~Dialling number string "112233445566778"~~
~~Bearer description~~
~~Bearer type: CSD~~
~~Bearer parameter~~
~~Data rate: 9600bps V.32~~
~~Bearer service: data circuit asynchronous UDI~~
~~Connection element: non-transparent~~
~~Buffer size 42~~

~~Coding:~~

~~BER-TLV:~~	~~D0~~	~~1E~~	~~81~~	~~03~~	~~01~~	~~40~~	~~01~~	~~82~~	~~02~~	~~81~~	~~82~~	~~86~~
	~~09~~	~~91~~	~~11~~	~~22~~	~~33~~	~~44~~	~~55~~	~~66~~	~~77~~	~~F8~~	~~B5~~	~~04~~
	~~01~~	~~07~~	~~00~~	~~01~~	~~B9~~	~~02~~	~~00~~	~~2A~~				

~~TERMINAL RESPONSE: OPEN CHANNEL 1.1.1~~

~~Logically:~~

~~Command details~~
~~Command number: 1~~
~~Command type: OPEN CHANNEL~~
~~Command qualifier: immediate link establishment~~
~~Device identities~~
~~Source device: ME~~
~~Destination device: SIM~~
~~Result~~
~~General Result: Command performed successfully~~
~~Channel status Channel identifier 1 and link established~~
~~Bearer description~~
~~Bearer type: CSD~~
~~Bearer parameter~~
~~Data rate: 9600bps V.32~~
~~Bearer service: data circuit asynchronous~~
~~Connection element: non-transparent~~
~~Buffer size 42~~

~~Coding:~~

~~BER-TLV:~~	~~81~~	~~03~~	~~01~~	~~40~~	~~01~~	~~82~~	~~02~~	~~82~~	~~81~~	~~83~~	~~01~~	~~00~~
	~~B8~~	~~02~~	~~81~~	~~01~~	~~B5~~	~~04~~	~~01~~	~~07~~	~~00~~	~~01~~	~~B9~~	~~02~~
	~~00~~	~~2A~~										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Address
- TON: International number
- NPI: ISDN / telephone numbering plan
- Dialling number string "112233445566778"

Bearer description
- Bearer type: CSD

Bearer parameter
- Data rate: 9600bps V.32
- Bearer service: data circuit asynchronous UDI
- Connection element: non-transparent

Buffer size 1000

Coding:

BER-TLV:	D0	1E	81	03	01	40	01	82	02	81	82	86
	09	91	11	22	33	44	55	66	77	F8	B5	04
	01	07	00	01	B9	02	03	E8				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

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

Result
- General Result: Command performed successfully

Channel status Channel identifier 1 and link established

Bearer description
- Bearer type: CSD

Bearer parameter
- Data rate: 9600bps V.32
- Bearer service: data circuit asynchronous
- Connection element: non-transparent

Buffer size 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	B8	02	81	01	B5	04	01	07	00	01	B9	02
	03	E8										

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B

Logically:

Command details
- Command number: 1
- Command type: OPEN CHANNEL
- Command qualifier: immediate link establishment

Device identities
Source device: SIM
Destination device: ME
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000
Text String: UserLog (User login)
Text String: UserPwd (User password)
SIM/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	36	81	03	01	40	01	82	02	81	82	35
	07	02	02	04	05	05	10	02	39	02	03	E8
	0D	08	F4	55	73	65	72	4C	6F	67	0D	08
	F4	55	73	65	72	50	77	64	3C	03	01	AD
	9C	3E	05	21	01	01	01	01				

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel status Channel identifier 1 and link established or PDP context activated
Bearer description
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1000

Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	00
	38	02	81	00	35	07	02	02	04	05	05	10
	02	39	02	03	E8							

ENVELOPE: EVENT DOWNLOAD - Channel Status 1.1.1

Logically:

Event list
- Event: Channel Status

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

Channel status
- Channel status: Channel 1, link dropped

Coding:

BER-TLV:	D6	0B	99	01	09	82	02	82	81	B8	02	01
	05											