3GPP TSG-T (Terminals) Meeting #23
Phoenix, USA
10 - 12 March, 2004

TP-040021

Agenda Item: 5.3.3

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 that are approved by 3GPP TSG T3 and forwarded to 3GPP TSG T#23 for approval:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
11.10-4	A062	-	R99	Essential correction on Terminal Profile for the BIP Inclusion of tests on Open Channel for GPRS, on the user confirmation	F	8.6.0	8.7.0	T3-040149
11.10-4	A063	-	R99	CR 11.10-4 Launch Browser test cases	F	8.6.0	8.7.0	T3-040152
11.10-4	A064	-	R99	CR 11.10-4 R99: Essential corrections	F	8.6.0	8.7.0	T3-040148
11.10-4	A065	-	R99	CR 11.10-4 R99: Essential correction of coding convention	F	8.6.0	8.7.0	T3-040157

3GPP TSG-T3 Meeting #30
Sophia Antipolis, France, 09.-13.02.2004

T3-040148

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A064** ⌘ **rev** **-** ⌘ Current version: **8.6.0** ⌘

*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:*** ⌘	12/02/2004
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) 27.22.4.1.5.4.2 Display Text: The step numbering in expected sequences 5.2A, 5.2B, 5.3A and 5.3B is incorrect.

b) 27.22.4.2.5.4.2: GET INKEY ("Yes/No" Response): The text which shall be displayed in step 10 is in contradiction to the coded text. Furthermore it is difficult to distinguish between the two commands if they are executed by the ME too fast to recognize a change or the execution of the second command with the same data on the display.

c) 27.22.4.2.6.4.2 Get Inkey: Length of PROACTIVE COMMAND: GET INKEY 6.3.1 shall be 0x19.

d) 27.22.4.3.4.4.2: GET INPUT (UCS2 format of entry): In expected sequence 4.1 the input “ЗДРАВСТВУЙТЕ” (12 UCS2 characters) shall be entered, but the response length range is set from 5 to 5 characters. In step 4 the text, which shall be displayed is in contradiction to the text in PROACTIVE COMMAND: GET INPUT 4.1.1.

e) 27.22.4.3.5.4.2: GET INPUT (Default text): The response length range in the comments of step 4 of expected sequence 5.2 is incorrect and might lead to confusion

f) 27.22.4.10.2.4.2: Send Short Message (UCS2 support): The length indicated in the SMS-TPDU TLV of PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.1 is incorrect.

g) 27.22.4.13.1.4.2: Set Up Call: Expected sequence 1.9: The coding of the dialling number string is in contradiction to the value in the sequence

table. Furthermore the coding table contains empty cells.

h) 27.22.4.13.3.4.2 Set Up Call: The source device in TERMINAL RESPONSE: SET UP CALL 3.1.1B and TERMINAL RESPONSE: SET UP CALL 3.2.1B shall be ME. Additionally the first space character of the message which shall be displayed in step 4 of expected seq. 3.2B shall be deleted, because it's not contained in the corresponding proactive command.

i) 27.22.4.13.3.4.2 Set Up Call: The message to be displayed in step 4 of expected sequence 3.3A shall be "Set up call Icon 3.3.1" as contained in the corresponding proactive command. The logical description of the icon qualifier in PROACTIVE COMMAND: SET UP CALL 3.3.1 is incontradiction to the test intention and to the coding.

j) 27.22.4.13.3.4.2 Set Up Call:
   1. In expected sequences 3.4A and 3.4B the proactive command shall contain two icon identifiers according to the "comments" column in step 3. One icon shall be used for the user confirmation phase and the other one for the call set up phase. According to TS 11.14, cl. 6.6.12 this means that the present coding is incorrect and a further icon identifier TLV shall be inserted.
   2. In expected sequence 3.4A the ME shall return a "command performed successfully." In this case the display of a text instead of the icon in step 6 is incorrect, because the ME shall then return a "command performed successfully, but requested icon could not be displayed" result vaule.
   3. In expected sequence 3.4B the ME shall return a "command performed successfully, but requested icon could not be displayed". Therefore the alpha identifiers will be displayed instead of the icons, which are the same in both cases. The expected sequence table needs to be adjusted accordingly.

k) 27.22.4.16.1.4.2 Set Up Event List: These tests are performed with the events "call connected" and "call disconnected". Due to missing data these tests might be implemented with different setups at the system simulator and the SIM simulator. To avoid the resulting failed tests or manual adjustment and therefore to allow automated testing, the missing data should be inserted. As the Event Download tests in 27.22.7 already contain the required data, this can be used in 27.22.4.16 as well. Furthermore a check that no ENVELOPE –EVENT DOWNLOAD is sent in expected sequences 1.3 and 1.4 is missing.

l) 27.22.4.17.1.4.2 Perform Card APDU: The command type coding of TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1, TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1 and TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1 shall be 0x30 instead of 0x32 (Power Off).

m) 27.22.4.21.1.4.2 Timer Management: The command qualifier for Timer Management (Get Current Value) is incorrect coded. It shall be 0x02 instead of 0x10 according to TS 11.14, cl. 12.6.

n) 27.22.4.22.1.4.2: Set Up Idle Mode Text: Table of Expected Seq. 1.4: The first space character in the message that shall be displayed in step 14 shall be deleted, because it's not contained in the corresponding proactive command.

o) 27.22.4.24.2.4.2: Send DTMF (display of icons): In expected sequence 2.3A the execution of a Send DTMF command containing an alpha identifier and a not self-explanatory icon shall be tested. Therefore the ME shall display both, the icon and the alpha identifier. This is not reflected in

the sequence table.

p) 27.22.4.24.3.4.2: Send DTMF: (UCS2 support): In PROACTIVE COMMAND: SEND DTMF 3.1.1 the tag coding of the Alpha Identifier TLV is incorrect. Futhermore an Alpha identifier doesn't include a DCS byte. The indication for UCS2 has do be done as for EF_ADN, which means that the coding x80 has to be used.

q) 27.22.4.26.2.4.2 Launch browser: Step numbering of expected sequence 2.3 is incorrect

r) 27.22.4.29.4.2: RECEIVE DATA and 27.22.4.30.4.2 SEND DATA: The logical description of the channel data is missing in the Terminal Responses of the corresponding RECEIVE DATA commands. To be able to verify if the data transfered from and to the network is correct transmitted and to allow automated testing, the channel data used in the expected sequences of the RECEIVE DATA and SEND DATA tests needs to be fixed.

s) 27.22.4.31.4.2 GET CHANNEL STATUS: In expected sequence 1.3 the proactive command Get Channel Status shall be executed after an Envelope Event download (Channel Status). This envelope will only be send if the corresponding event has been set up with Set Up Event List before. In the current version of the test this is missing.

t) According to TS 11.14, cl. 9.1.6 a SS String TLV instead of the address TLV is used in an Envelope Call Control for supplementary services. According to TS 11.14, cl. 12.14 the first byte of the value ("TON and NPI") is coded as for EF(ADN). TS 51.011, cl. 10.5.1 "EF(ADN)" states that he TON/NPI byte shall be set to "FF" by the ME if the dialling Number/SSC String does not contain a dialling number. Therefore the related data is incorrect in ENVELOPE CALL CONTROL 2.2.1 in 27.22.6.2.4.2. Furthermore GSM 02.30 states that "The supplementary information (SI) may comprise e.g. a PIN code or Directory Number. Where a particular service request does not require any SI, "*SI" is not entered, e.g. Activation becomes SC#SEND." This means that the content of the SS String should be "*21#" instead of "*21*#" in ENVELOPE CALL CONTROL 2.2.1 in 27.22.6.2.4.2. These changes was already approved at T3#28, Tdoc T3-030724, CR-No.: 053, but the change were not integrated in the new version of the specification.

Summary of change: ⌘

a) 27.22.4.1.5.4.2 Display Text: The step numbering in expected sequences 5.2A, 5.2B, 5.3A and 5.3B corrected.

b) 27.22.4.2.5.4.2: GET INKEY GET INKEY ("Yes/No" Response): Second proactive command with different text string implemented and first one modified. Sequence table adjusted.

c) 27.22.4.2.6.4.2 Get Inkey: Length of PROACTIVE COMMAND: GET INKEY 6.3.1 set to 0x19.

d) 27.22.4.3.4.4.2: Expected sequence 4.1, logical description and coding of PROACTIVE COMMAND: GET INPUT 4.1.1 corrected to allow the 12 characters input "ЗДРАВСТВУЙТЕ". Text in step 4 corrected.

e) 27.22.4.3.5.4.2: GET INPUT (Default text): The response length range in the comments of step 4 of expected sequence 5.2 corrected

f) 27.22.4.10.2.4.2: Send Short Message (UCS2 support): Length indicated of the SMS-TPDU TLV of PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.1 corrected.

g) 27.22.4.13.1.4.2: Set UP CALL: Expected sequence 1.9: Coding of the dialling number string corrected and bytes moved to delete empty cells in the coding table.

h) 27.22.4.13.3.4.2 Set Up Call: The source device in TERMINAL RESPONSE: SET UP CALL 3.1.1B and TERMINAL RESPONSE: SET UP CALL 3.2.1B set be ME. First character in the message in step 4 of exp. sequence 1.4 deleted.

i) 27.22.4.13.3.4.2 Set Up Call: Message to be displayed in step 4 of expected sequence 3.3A and logical description of the icon qualifier in PROACTIVE COMMAND: SET UP CALL 3.3.1 corrected

j) 27.22.4.13.3.4.2 Set Up Call: Further icon identifier TLV in proactive command Set Up Call 3.4.1 inserted and sequence tables of expected sequence 3.4A and 3.4B corrected.

k) 27.22.4.16.1.4.2 Set Up Event List: The required data is inserted on the basis of the test defined in 27.22.7 and expected sequences 1.3 and 1.4 enhanced.

l) 27.22.4.17.1.4.2 Perform Card APDU: Command type coding of TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1, TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1 and TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1 correct to 0x30

m) 27.22.4.21.1.4.2 Timer Management: Coding of the command qualifier for Timer Management (Get Current Value) correct

n) 27.22.4.22.1.4.2: Set Up Idle Mode Text: Table of Expected Seq. 1.4: The first space character in the message that shall be displayed in step 14 shall be deleted. Expected sequence enhanced to check that no ENVELOPE- EVENT DOWNLOAD is sent by the ME.

o) 27.22.4.24.2.4.2: Send DTMF (display of icons): Expected sequence 2.3A enhanced to check the display of the icon and the alpha identifier.

p) 27.22.4.24.3.4.2: Send DTMF: (UCS2 support): Logical description and coding of the Alpha Identifier TLV in PROACTIVE COMMAND: SEND DTMF 3.1.1 corrected.

q) 27.22.4.26.2.4.2 Launch browser: Step numbering of expected sequence 2.3 corrected

r) 27.22.4.29.4.2: RECEIVE DATA and 27.22.4.30.4.2 SEND DATA: Logical description of the channel data in the Terminal Responses of the corresponding RECEIVE DATA commands inserted and channel data used in the expected sequences of the RECEIVE DATA and SEND DATA defined

s) 27.22.4.31.4.2 GET CHANNEL STATUS: The missing Set Up Event List is inserted in expected sequence 1.3.

t) Changes described in Tdoc T3-030724 for sequence 2.2 inserted.

u) 27.22.7.1.1.4.2 Event Download (MT Call): Expected sequence 1.1 adjusted and redundant coding deleted

Consequences if not approved: ⌘ a) 27.22.4.1.5.4.2 Display Text: Sequence table of expected sequences 5.2A, 5.2B, 5.3A and 5.3B will remain incorrect.

b) 27.22.4.2.5.4.2: GET INKEY GET INKEY ("Yes/No" Response): MEs will fail the test because the expected text in step 10 will differ from the displayed one. Without the usage of different text strings in the consecutive commands it is difficult to distinguish between the two commands if they are executed by the ME too fast to recognize a change or the execution of the second command with the same data on the display and might therefore lead to incorrect performed test.

c) 27.22.4.2.6.4.2 Get Inkey: Test in expected sequence 6.3A can't be performed correctly, because the length of PROACTIVE COMMAND: GET INKEY 6.3.1 is incorrect.

d) Test in 27.22.4.3.4.4.2: Expected sequence 4.1 cannot be performed, because the requested input cannot be entered

e) 27.22.4.3.5.4.2: GET INPUT (Default text): The response length range in the comments of step 4 of expected sequence 5.2 might lead to confusion

f) The test defined in 27.22.4.10.2.4.2 cannot be performed, because the coding of PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.1 is incorrect

g) 27.22.4.13.1.4.2: Set UP CALL: Expected sequence 1.9: MEs will fail the test, because an incorrect number will be dialled.

h) 27.22.4.13.3.4.2: MEs will fail the tests due to incorrect acceptance criteria.

i) 27.22.4.13.3.4.2 Set Up Call: MEs will fail the test due to incorrect acceptance criteria.

j) 27.22.4.13.3.4.2 Set Up Call: The expected sequences 3.4A and 3.4B can't be executed as intended and the MEs will fail the incorrect tests.

k) 27.22.4.16.1.4.2 Set Up Event List: Due to missing data these tests might be implemented with different setups at the system simulator and the SIM simulator and might therefore lead to failed or incorrectly performed tests. Expected sequences 1.3 and 1.4 will be insufficient, because the current test can't ensure that the event was successfully removed.

l) 27.22.4.17.1.4.2 Perform Card APDU: MEs will fail the tests due to incorrect command type coding of TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1, TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1 and TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1.

m) 27.22.4.21.1.4.2 Timer Management: Tests including the command Timer Management (Get Current Value) can't be performed, because the coding of the corresponding commands is incorrect.

n) 27.22.4.22.1.4.2: Mismatch between coded and epxected data will lead to a failed test.

o) 27.22.4.24.2.4.2: Send DTMF (display of icons): Expected sequence 2.3A would not reflect the test intention and MEs will fail the test, because the expected data on the display will be in contradiction to the displayed data.

p) 27.22.4.24.3.4.2: Send DTMF: (UCS2 support): Test can't be executed due to incorrect coding of the Alpha Identifier TLV in PROACTIVE COMMAND: SEND DTMF 3.1.1.

q) 27.22.4.26.2.4.2 Launch browser: Sequence table of expected sequence

2.3 incorrect

r) 27.22.4.29.4.2: RECEIVE DATA: The logical description of the Terminal Responses of the corresponding RECEIVE DATA commands would be incomplete. Furthermore a complex manual set up of the tests defined in 27.22.4.29.4.2 and 27.22.4.30.4.2 would be needed to be able to verify if the data transfered from and to the network is transmitted correct and automated testing would therefore not possible.

s) 27.22.4.31.4.2 GET CHANNEL STATUS: Test defined in expected sequence 1.3 cannot be perfomed as intended, because the required event hasn't been set up before.

t) 27.22.6.2.4.2 The test defined in expected sequence 2.2 would be incorrect due to the wrong TON/NPI byte in the SS String and there won't be any test if the ME really sends the SS operation when call control by SIM is activated.

Clauses affected:	⌘	27.22.4.1.5.4.2, 27.22.4.2.5.4.2, 27.22.4.2.6.4.2, 27.22.4.3.4.4.2, 27.22.4.3.5.4.2, 27.22.4.10.2.4.2, 27.22.4.13.1.4.2, 27.22.4.13.3.4.2, 27.22.4.16.1.4.2, 27.22.4.17.1.4.2, 27.22.4.21.1.4.2, 27.22.4.22.1.4.2, 27.22.4.24.2.4.2, 27.22.4.24.3.4.2, 27.22.4.26.2.4.2, 27.22.4.29.4.2, 27.22.4.30.4.2, 27.22.4.31.4.2, 27.22.4.31.4.2, 27.22.7.1.1.4.2			
		Y	**N**		
Other specs affected:	⌘		**N**	Other core specifications	⌘
			N	Test specifications	
			N	O&M Specifications	
Other comments:	⌘				

27.22.4.1.5.4.2 Procedure

[..]

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

Step	Direction	MESSAGE / Action	Comments
~~7~~1	SIM → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.2.1	
2~~8~~	ME → SIM	FETCH	
~~9~~3	SIM → ME	PROACTIVE COMMAND: DISPLAY TEXT 5.2.1	[COLOUR-ICON]
4~~10~~	ME → USER	Display the COLOUR-ICON	
~~11~~5	USER → ME	Clear Message	
6~~12~~	ME → SIM	TERMINAL RESPONSE: DISPLAY TEXT 5.2.1A	[Command performed successfully]

[..]

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

Step	Direction	MESSAGE / Action	Comments
~~7~~1	SIM → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.2.1	
2~~8~~	ME → SIM	FETCH	
~~9~~3	SIM → ME	PROACTIVE COMMAND: DISPLAY TEXT 5.2.1	[COLOUR-ICON]
4~~10~~	ME → USER	Display "Colour Icon" without the icon	
~~11~~5	USER → ME	Clear Message	
6~~12~~	ME → SIM	TERMINAL RESPONSE: DISPLAY TEXT 5.2.1B	[Command performed successfully, but requested icon could not be displayed]

[..]

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

Step	Direction	MESSAGE / Action	Comments
~~13~~1	SIM → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.3.1	
2~~14~~	ME → SIM	FETCH	
~~15~~3	SIM → ME	PROACTIVE COMMAND: DISPLAY TEXT 5.3.1	[BASIC-ICON, not self-explanatory]
4~~16~~	ME → USER	Display the BASIC-ICON And Display "Basic Icon"	
~~17~~5	USER → ME	Clear Message	
6~~18~~	ME → SIM	TERMINAL RESPONSE: DISPLAY TEXT 5.3.1A	[Command performed successfully]
~~19~~7	SIM → ME	PROACTIVE SIM SESSION ENDED	

[..]

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

Step	Direction	MESSAGE / Action	Comments
1~~13~~	SIM → ME	PROACTIVE COMMAND PENDING: DISPLAY TEXT 5.3.1	
~~14~~2	ME → SIM	FETCH	
3~~15~~	SIM → ME	PROACTIVE COMMAND: DISPLAY TEXT 5.3.1	[BASIC-ICON, not self-explanatory]
~~16~~4	ME → USER	Display "Basic Icon" without the icon	
5~~17~~	USER → ME	Clear Message	
~~18~~6	ME → SIM	TERMINAL RESPONSE: DISPLAY TEXT 5.3.1B	[Command performed successfully, but requested icon could not be displayed]
7~~19~~	SIM → ME	PROACTIVE SIM SESSION ENDED	

27.22.4.2.5.4.2 Procedure

Expected Sequence 5.1(GET INKEY, "Yes/No" Response for the input, successful)

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

PROACTIVE COMMAND: GET INKEY 5.1.1

Logically:

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

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

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

Coding:

BER-TLV:	D0	151	81	03	01	22	04	82	02	81	82	8D
	06A	04	45	6E	74	65	72	20	59	45	43	

TERMINAL RESPONSE: GET INKEY 5.1.1

Logically:

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

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

Result
- General Result: Command performed successfully

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

Coding:

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

PROACTIVE COMMAND: GET INKEY 5.1.2: ~~same as 5.1.1~~

Logically:

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

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

Text String
- Data coding scheme: unpacked, 8 bit data
- Text: "Enter NO"

Coding:

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

TERMINAL RESPONSE: GET INKEY 5.1.2

Logically:

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

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

Result
- General Result: Command performed successfully

Text String:
Data coding scheme: unpacked, 8 bit data
Text: 00 (hex)

Coding:

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

27.22.4.2.6.4.2 Procedure

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

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

PROACTIVE COMMAND: GET INKEY 6.3.1

Logically:

Command details
Command number: 1
Command type: GET INKEY
Command qualifier: digits (0-9, *, # and +) only, no help information available
Device identities
Source device: SIM
Destination device: ME
Text String
Data coding scheme: unpacked, 8 bit data
Text: "<NO-ICON>"
Icon Identifier
Icon qualifier: self-explanatory
Icon identifier: 2 (number of record in EF_{Img})

Coding:

BER-TLV:	D0	1~~D~~9	81	03	01	22	00	82	02	81	82	8D
	0A	04	3C	4E	4F	2D	49	43	4F	4E	3E	1E
	02	00	02									

27.22.4.3.4.4.2 Procedure

Expected Sequence 4.1 (GET INPUT, character set from UCS2 alphabet, successful)

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

PROACTIVE COMMAND: GET INPUT 4.1.1

Logically:

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

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

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

Response length
- Minimum length: ~~5~~12
- Maximum length: ~~5~~12

Coding:

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

TERMINAL RESPONSE: GET INPUT 4.1.1

Logically:

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

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

Result
- General Result: Command performed successfully

Text string
- Data coding scheme: UCS2
- Text: "ЗДРАВСТВУЙТЕ"

Coding:

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

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~~160-~~5~~160 Text string coding in unpacked format Default text length 160 bytes coding in unpacked format
5	USER → ME	Completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 5.2.1	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 5.2.1

Logically:

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

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

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

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

Default Text
- Data coding scheme: unpacked, 8 bit data
- Text: "***1111111111###***2222222222###***3333333333###***4444444444###***5555555555###***6666666666###***7777777777###***8888888888###***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	23	23	2A	2A	2A	32
	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			

TERMINAL RESPONSE: GET INPUT 5.2.1

Logically:

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

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

Result
- General Result: Command performed successfully

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

Coding:

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

27.22.4.10.2.4.2 Procedure

Expected Sequence 2.1 (SEND SHORT MESSAGE, packing not required, UCS2 (16-bit data))

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.1	[packing not required, 16-bit data]
4	ME → USER	Display "Send SM"	[Alpha Identifier]
5	ME → SS	Send SMS-PP (SEND SHORT MESSAGE) Message 2.1	["ЗДРАВСТВУЙТЕ" = "Hello" in Russian]
6	SS → ME	SMS RP-ACK	
7	ME → SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.1

Logically:

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

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

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

SMS TPDU
- TP-MTI SMS-SUBMIT
- TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM
- TP-VPF TP-VP field not present
- TP-RP TP-Reply-Path is not set in this SMS-SUBMIT
- TP-UDHI The TP-UD field contains only the short message
- TP-SRR A status report is not requested
- TP-MR "00"
- TP-DA
  - TON International number
  - NPI "ISDN / telephone numbering plan"
  - Address value "012345678"
- TP-PID Short message type 0
- TP-DCS
  - Message coding 16-bit data
  - Message class class 0
- TP-UDL 24
- TP-UD "ЗДРАВСТВУЙТЕ"

Coding:

BER-TLV:	D0	43	81	03	01	13	00	82	02	81	83	85
	07	53	65	6E	64	20	53	4D	86	09	91	11
	22	33	44	55	66	77	F8	8B	~~18~~24	01	00	09
	91	10	32	54	76	F8	40	08	18	04	17	04
	14	04	20	04	10	04	12	04	21	04	22	04
	12	04	23	04	19	04	22	04	15			

[..]

27.22.4.13.1.4.2 Procedure

Expected Sequence 1.9 (SET UP CALL, max dialling number string, no alpha identifier)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.9.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE SET UP CALL 1.9.1	[dialling number string, no alpha identifier]
4	USER → ME	The user confirms the set up call	[user confirmation]
5	ME→SS	The ME attempts to set up a call to "012345678901234567890123456789*#*#*#*#*#0123456789012345678901234567890123456789*#*#*#*#*#"	
6	SS → ME	The ME receives the CONNECT message from the system simulator.	
7	ME → SIM	TERMINAL RESPONSE 1.9.1	[Command performed successfully]
8	USER → ME	The user ends the call The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 1.9.1

Logically:

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

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

Address
- TON: International
- NPI: ISDN / telephone numbering plan

Dialling number string: "012345678901234567890123456789*#*#*#*#*#012345678901234567890123456789*#*#*#*#*#*#"

Coding:

BER-TLV:	D0	34	8134	0381	0103	1001	0110	8201	0282	8102	8381	8683
	2986	91	1029	3291	5410	7632	9854	1076	3298	5410	7632	9854
	1076	3298	5410	7632	9854	BA76	BA98	BABA	BABA	BABA	10BA	32BA
	5410	7632	9854	1076	3298	5410	7632	9845	1067	3289	5401	7632
	9854	BA76	BA98	BABA	BABA	BABA	BA	BA				

TERMINAL RESPONSE: SET UP CALL 1.9.1

Logically:

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

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

Result
General Result: Command performed successfully

Coding:

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

27.22.4.13.3.4.2 Procedure

[..]

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 3.1.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	ME → USER	ME displays "Set up call Icon 3.1.1" without the basic icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→SS	The ME attempts to set up a call to "+012340123456p1p2"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 3.1.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.1.1B

Logically:

Command details
Command number: 1
Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ~~Network~~ ME
Destination device: SIM
Result
General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	10	00	82	02	~~83~~82	81	83	01	04

[..]

PROACTIVE COMMAND: SET UP CALL 3.2.1

Logically:

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

Device identities
- Source device: SIM
- Destination device: Network
- Alpha identifier: "Set up call Icon 3.2.1"

Address
- TON: International
- NPI: ISDN / telephone numbering plan
- Dialling number string "012340123456p1p2"

Icon identifier
- Icon qualifier: icon is self-explanatory
- Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	30	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6E	20	33	2E	32	2E	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E	02
	00	01										

[..]

Expected Sequence 3.2B (SET UP CALL, display of basic icon during confirmation phase, self-explanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 3.2.1	Including icon identifier, icon shall be displayed instead of the first alpha identifier
4	ME → USER	ME display "~~-~~Set up call Icon 3.2.1" without the icon	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→SS	The ME attempts to set up a call to "+012340123456p1p2"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 3.2.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.2.1B

Logically:

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

Device identities
- Source device: ~~Network~~ ME

Destination device: SIM

Result

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

Coding:

BER-TLV:	81	03	01	10	00	82	02	~~83~~82	81	83	01	04

[..]

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 3.3.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	ME → USER	ME displays "Set up call Icon 3.3.1" and the colour icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→SS	The ME attempts to set up a call to "+012340123456p1p2"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 3.3.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 3.3.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: SIM

Destination device: Network

Alpha identifier: "Set up call Icon 3.3.1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is not self-explanatory

Icon identifier: <record 2 in EF IMG>

Coding:

BER-TLV:	D0	30	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6E	20	33	2E	33	2E	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E	02
	01	02										

[..]

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 3.4.1	Including a second alpha identifier and two icons
4	ME → USER	ME displays the basic icon during a user confirmation phase.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME→SS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays the basic icon without the text during the set up call. ~~If the ME cannot display the icon, it displays " Set up call Icon 3.4.1"~~	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 3.4.1A	[Command performed successfully]
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

PROACTIVE COMMAND: SET UP CALL 3.4.1

Logically:

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

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

~~Alpha identifier:~~ "Set up call Icon 3.4.1"

Address
- TON: International
- NPI: ISDN / telephone numbering plan
- Dialling number string "012340123456p1p2"

Icon identifier
- Icon qualifier: icon is self-explanatory
- Icon identifier: <record 1 in EF IMG>

~~Alpha identifier:~~ "Set up call Icon 3.4.2"

Icon identifier
- Icon qualifier: icon is self-explanatory
- Icon identifier: <record 1 in EF IMG>

Coding:

BER-TLV:	D0	48C	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	63	6F	6E	20	33	2E	34	2E	31	86
	09	91	10	32	04	21	43	65	1C	2C	9E85	0216
	0053	0165	8574	1620	5375	6570	7420	2063	7561	706C	206C	6320
	6149	6C63	6C6F	206E	4920	6333	6F2E	6E34	202E	3332	2E9E	3402
	2E00	3201	9E	02	00	01						

TERMINAL RESPONSE: SET UP CALL 3.4.1A

Logically:

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

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

Result
- General Result: Command performed successfully

Coding:

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

Expected Sequence 3.4B (SET UP CALL, display of self explanatory basic icon during set up call, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 3.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 3.4.1	Including a second alpha identifier and two icons
4	ME → USER	ME displays "Set up call Icon 3.4.1" without the icon.	
5	USER → ME	The user confirms the set up call	[user confirmation]
6	ME → SS	The ME attempts to set up a call to "+012340123456p1p2". The ME displays "Set up call Icon 3.4.2" without the icon the basic icon during the set up call. If the ME cannot display the icon, it displays " Set up call Icon 3.4.1"	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 3.4.1B	[Command performed successfully, but requested icon could not be displayed].
9	USER → ME	The user ends the call after 5 s. The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.4.1B

Logically:

Command details
- Command number: 1

Command type: SET UP CALL
Command qualifier: only if not currently busy on another call
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully, but requested icon could not be displayed

Coding:

BER-TLV:	81	03	01	10	00	82	02	82	81	83	01	04

27.22.4.16.1.4.2 Procedure

Expected Sequence 1.1 (SET UP EVENT LIST, Set Up Call Connect Event)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	SIM → ME	PROACTIVE SIM SESSION ENDED	
6	SS → ME	SETUP 1.1.1	[Incoming call alert]
7	USER → ME	User shall accept the incoming call	
8	ME → SS	CONNECT 1.1.1	
9	ME → SIM	ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1.1	[Call Connected Event]
10	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'
Device identities
Source device: SIM
Destination device: ME
Event list
Event 1: Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'
Device identities

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

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.1.1

Logically:

Transaction identifier
Ti v~~V~~alue: 0 (bit 5-7)~~XX XX~~
Ti flag: 0 (bit 8)
Address
~~Value~~TON: "Unknown"~~XX XX~~
NPI: "ISDN/ telephone numbering plan"
Dialling number string: "9876"
~~Called party subaddress~~
~~Value: XX XX~~

CONNECT 1.1.1

Logically:

Transaction identifier
Ti ~~V~~value: 0 (bit 5-7)~~XX XX~~
Ti flag: 1 (bit 8)

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

Logically

Event list
Event 1: Call Connected
Device identities
Source device: Network
Destination device: SIM
Transaction identifier
Ti ~~V~~value: 0 (bit 5-7)~~XXXX~~
Ti flag: 1 (bit 8)

Coding:

BER-TLV:	D6	~~xx~~0A	99	01	01	82	02	83	81	9C	~~xx~~01	80~~...~~

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1	[Call Connected and Call Disconnected Events]
	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1	
4	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.2	
5	ME → SIM	FETCH	
6	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2	[Call Disconnected Event]
7	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
10	SS → ME	SETUP 1.2.2	[Incoming call alert]
11	USER → ME	User shall accept the incoming call	
12	ME → SS	CONNECT 1.2.2	
13	SS → ME	DISCONNECT 1.2.2	
	ME → SIM	ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2	[Call Disconnect Event]
14	SIM → ME	PROACTIVE SIM SESSION ENDED	

PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Event list
- Event 1: Call Connected
- Event 2: Call Disconnected

Coding:

BER-TLV:	D0	0D	81	03	01	05	00	82	02	81	82	99
	02	01	02									

TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Event list
- Event 1: Call Disconnected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	02										

TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.2.2

Logically:

Transaction identifier
- Ti v~~V~~alue: 0 (bit 5-7) ~~XX XX~~
- Ti flag: 0 (bit 8)

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

~~Called party subaddress~~
- ~~Value: XX XX~~

CONNECT 1.2.2

Logically:

Transaction identifier
Ti ~~V~~value: 0 (bit 5-7)~~XX XX~~
Ti flag: 1 (bit 8)

DISCONNECT 1.2.2

Logically:

Transaction identifier
Ti value: 0 (bit 5-7)
Ti flag: 0 (bit 8)
~~Value: XX XX~~
Cause
Value: ~~XX XX~~Normal call clearing

ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2

Logically:

Event list
Event 1: Call Disconnected
Device identities
Source device: Network
Destination device: SIM
Transaction identifier
~~Value: XX XX~~
Ti value: 0 (bit 5-7)
Ti flag: 0 (bit 8)

Cause
Value: ~~XX XX~~ Normal call clearing

Coding:

BER-TLV:	D6	~~xx~~0E	99	01	02	82	02	83	81	9C	~~xx~~01	~~...~~00
	9A	~~xx~~02	~~...~~60	90								

Expected Sequence 1.3 (SET UP EVENT LIST, Remove Event)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1	[Call Connected Event]
	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1	
4	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.1	
5	ME → SIM	FETCH	
6	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2	[Remove Event]
7	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
10	SS → ME	SETUP 1.3.2	[Incoming call alert]
11	USER → ME	User shall accept the incoming call	
12	ME → SS	CONNECT 1.3.2	
13	ME → SIM	No ENVELOPE: EVENT DOWNLOAD (call connected) sent	
143	SS → ME	DISCONNECT 1.3.2	

PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Event list
- Event 1: Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

Device identities
- Source device: SIM
- Destination device: ME
- Event list: Empty

Coding:

BER-TLV:	D0	0B	81	03	01	05	00	82	02	81	82	99
	00											

TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.3.2

Logically:

Transaction identifier
- Ti ~~V~~value: 0 (bit 5-7) ~~XX XX~~
- Ti flag: 0 (bit 8)

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

~~Called party subaddress~~
- ~~Value: XX XX~~

CONNECT 1.3.2

Logically:

Transaction identifier
- Ti v~~V~~alue: 0 (bit 5-7)~~XX XX~~

Ti flag: 1 (bit 8)

DISCONNECT 1.3.2

Logically:

Transaction identifier
~~Value: XX XX~~
Ti value: 0 (bit 5-7)
Ti flag: 0 (bit 8)

Cause
Value: Normal call clearing~~XX XX~~

Expected Sequence 1.4 (SET UP EVENT LIST, Remove Event on ME Power Cycle)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.4.1	[Call Connected Event]
	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.4.1	
4	SIM → ME	PROACTIVE SIM SESSION ENDED	
5	User → ME	Power off ME	
6	User → ME	Power on ME	
7	SS → ME	SETUP 1.4A	[Incoming call alert]
8	USER → ME	User shall accept the incoming call	
9	ME → SS	CONNECT 1.4.1	
10	ME → SIM	No ENVELOPE: EVENT DOWNLOAD (call connected) sent	
11~~0~~	SS → ME	DISCONNECT 1.4.1	

PROACTIVE COMMAND: SET UP EVENT LIST 1.4.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'
Device identities
Source device: SIM
Destination device: ME
Event list
Event 1: Call Connected

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	01										

TERMINAL RESPONSE: SET UP EVENT LIST 1.4.1

Logically:

Command details
Command number: 1

Command type: SET UP EVENT LIST
Command qualifier: '00'
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

SET UP 1.4.1

Logically:

Transaction identifier
Ti ~~V~~value: 0 (bit 5-7) ~~XX XX~~
Ti flag: 1 (bit 8)
Address
TON: "Unknown"
NPI: "ISDN/ telephone numbering plan"
Dialling number string: "9876"
~~Value: XX XX~~
~~Called party subaddress~~
~~Value: XX XX~~

CONNECT 1.4.1

Logically:

Transaction identifier
Ti v~~V~~alue: 0 (bit 5-7)~~XX XX~~
Ti flag: 1 (bit 8)

DISCONNECT 1.4.1

Logically:

Transaction identifier
Ti value: 0 (bit 5-7)
Ti flag: 0 (bit 8)
~~Value: XX XX~~
Cause
Value: Normal call clearing~~XX XX~~

27.22.4.17.1.4.2 Procedure

[..]

Expected Sequence 1.3 (PERFORM CARD APDU, card reader 1, card inserted, card powered off)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER OFF CARD 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER OFF CARD 1.3.1	[Power off card reader 1]
4	ME → SIM2	POWER OFF CARD	[Power off card reader 1]
5	ME → SIM	TERMINAL RESPONSE: POWER OFF CARD 1.3.1	[Successful]
6	ME	SIM2 is powered off from ME card reader	
7	SIM → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.1.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	[Select Master File]
10	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1	[Card powered off]

[..]

TERMINAL RESPONSE: PERFORM CARD APDU 1.3.1

Logically:

Command details
- Command number: 1
- Command type: PERFORM CARD APDU
- Command qualifier: "00"

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

Result
- General Result: MultipleCard commands error
- Additional Information: Card powered off

Coding:

BER-TLV:	81	03	01	32~~2~~0	00	82	02	82	81	83	02
	38	04									

Expected Sequence 1.4 (PERFORM CARD APDU, card reader 1, no card inserted)

Step	Direction	MESSAGE / Action	Comments
1	ME	SIM2 is removed from ME card reader	
2	SIM → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.1.1	
3	ME → SIM	FETCH	
4	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	[Select Master File]
5	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1	[No card inserted]

TERMINAL RESPONSE: PERFORM CARD APDU 1.4.1

Logically:

Command details

Command number: 1
Command type: PERFORM CARD APDU
Command qualifier: "00"
Device identities
Source device: ME
Destination device: SIM
Result
General Result: MultipleCard commands error
Additional Information: Card removed or not present

Coding:

BER-TLV:	81	03	01	302	00	82	02	82	81	83	02
	38	02									

Expected Sequence 1.5 (PERFORM CARD APDU, card reader 7 (which is not the valid card reader identifier of the additional ME card reader))

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.5.1	[invalid card reader ID]
3	ME → SIM	FETCH	
4	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.5.1	[Select Master File]
5	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1	[Specified reader not valid]

[..]

TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1

Logically:

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

Coding:

BER-TLV:	81	03	01	320	00	82	02	82	81	83	02
	38	09									

27.22.4.21.1.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.1	
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.1	[start timer 1]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.2	After 1 minute following reception of Terminal Response
6	ME → SIM	FETCH	
7		PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.2	[ask value of timer 1]
8	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.2	[command performed successfully]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.3	Before timer expires!
10	ME → SIM	FETCH	
11		PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.3	[reinitialize timer 1]
12	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.3	[command performed successfully]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.1.4	After 30 s following reception of the Terminal Response
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.4	[deactivate timer 1]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.4	[command performed successfully]

[..]

PROACTIVE COMMAND: TIMER MANAGEMENT 1.1.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Timer identifier
- Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	01										

[..]

TERMINAL RESPONSE: TIMER MANAGEMENT 1.1.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Result
- General Result: Command performed successfully

Timer identifier
- Identifier of timer: 1

Timer value
- Value of timer: value < to the timer value of command 1.1.1

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	00
	A4	01	01	A5	03	xx	xx	xx				

[..]

Expected Sequence 1.2 (TIMER MANAGEMENT, start timer 2 several times, get the current value of the timer and deactivate the timer successfully)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.1	
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.1	[start timer 2]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.2	After 1 minute following reception of Terminal Response
6	ME → SIM	FETCH	
7		PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.2	[ask value of timer 2]
8	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.2	[command performed successfully]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.3	Before timer expires!
10	ME → SIM	FETCH	
11		PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.3	[reinitialize timer 2]
12	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.3	[command performed successfully]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.2.4	After 10 seconds following reception of Terminal Response
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.4	[deactivate timer 2]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.4	[command performed successfully]

[..]

PROACTIVE COMMAND: TIMER MANAGEMENT 1.2.2

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer
Device identities
Source device: SIM
Destination device: ME
Timer identifier
Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	02										

[..]

TERMINAL RESPONSE: TIMER MANAGEMENT 1.2.2

Logically:

Command details
Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Timer identifier
Identifier of timer: 2
Timer value
Value of timer: value < to the timer value of command 1.2.1

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	00
	A4	01	02	A5	03	xx	xx	xx				

[..]

Expected Sequence 1.3 (TIMER MANAGEMENT, start timer 8 several times, get the current value of the timer and deactivate the timer successfully)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.1	
2	ME → SIM	FETCH	
3		PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.1	[start timer 8]
4	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.1	[command performed successfully]
5	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.2	After 1 minute following reception of Terminal Response
6	ME → SIM	FETCH	
7		PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.2	[ask value of timer 8]
8	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.2	[command performed successfully]
9	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.3	Before timer expires!
10	ME → SIM	FETCH	
11		PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.3	[reinitialize timer 8]
12	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.3	[command performed successfully]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.3.4	After 30 seconds following reception of Terminal Response
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.4	[deactivate timer 8]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.4	[command performed successfully]

[..]

PROACTIVE COMMAND: TIMER MANAGEMENT 1.3.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Timer identifier
- Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	08										

[..]

TERMINAL RESPONSE: TIMER MANAGEMENT 1.3.2

Logically:

Command details

Command number: 1
Command type: TIMER MANAGEMENT
Command qualifier: get the current value of the Timer
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Timer identifier
Identifier of timer: 8
Timer value
Value of timer: value < to the timer value of command 1.3.1

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	00
	A4	01	08	A5	03	xx	xx	xx				

[..]

Expected Sequence1.4 (TIMER MANAGEMENT, try to get the current value of a timer which is not started: action in contradiction with the current timer state)

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

Step	Direction	MESSAGE / Action	Comments
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.6	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.6	[get current value from timer 6]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.7	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.7	[get current value from timer 7]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7	[action in contradiction with the current timer state]
13	SIM → ME	PROACTIVE COMMAND PENDING: TIMER MANAGEMENT 1.4.8	
14	ME → SIM	FETCH	
15		PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.8	[get current value from timer 8]
16	ME → SIM	TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8	[action in contradiction with the current timer state]

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Timer identifier
- Identifier of timer: 1

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	01										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.1

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

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

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 1

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	24
	A4	01	01									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Timer identifier
- Identifier of timer: 2

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	02										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.2

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

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

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 2

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	24
	A4	01	02									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.3

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Timer identifier
- Identifier of timer: 3

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	03										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.3

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

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

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 3

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	24
	A4	01	03									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.4

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Timer identifier
- Identifier of timer: 4

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	04										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.4

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

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

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 4

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	24
	A4	01	04									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.5

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Timer identifier
- Identifier of timer: 5

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	05										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.5

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

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

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 5

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	24
	A4	01	05									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.6

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Timer identifier
- Identifier of timer: 6

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	06										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.6

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

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

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 6

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	24
	A4	01	06									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.7

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Timer identifier
- Identifier of timer: 7

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	07										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.7

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

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

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 7

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	24
	A4	01	07									

PROACTIVE COMMAND: TIMER MANAGEMENT 1.4.8

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get the current value of the Timer

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

Timer identifier
- Identifier of timer: 8

Coding:

BER-TLV:	D0	0C	81	03	01	27	~~1~~02	82	02	81	82	A4
	01	08										

TERMINAL RESPONSE: TIMER MANAGEMENT 1.4.8

Logically:

Command details
- Command number: 1
- Command type: TIMER MANAGEMENT
- Command qualifier: get current value from the Timer

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

Result
- General Result: Action in contradiction with the current timer state

Timer identifier
- Identifier of timer: 8

Coding:

BER-TLV:	81	03	01	27	~~1~~02	82	02	82	81	83	01	24
	A4	01	08									

[..]

27.22.4.22.1.4.2 Procedure

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 1.1/2	
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"	

[..]

PROACTIVE COMMAND: DISPLAY TEXT 1.4.1

Logically:

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

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

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

Coding:

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

73	74	20	31								

27.22.4.24.2.4.2 Procedure

[..]

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

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

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

PROACTIVE COMMAND: SEND DTMF 2.3.1

Logically:

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

Device identities
- Source device: SIM
- Destination device: Network
- Alpha identifier: "Send DTMF"
- DTMF String: "1" pause "2"

Icon identifier:
- Icon qualifier: icon is not self-explanatory
- Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

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

[..]

27.22.4.24.3.4.2 Procedure

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

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

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

PROACTIVE COMMAND: SEND DTMF 3.1.1

Logically:

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

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

Alpha Identifier
- ~~Data coding scheme: UCS2 (16bit)~~
- Text: "ЗДРАВСТВУЙТЕ"
- DTMF String: "1" pause "2"

Coding:

BER-TLV:	D0	28	81	03	01	14	00	82	02	81	83	8~~D~~5
	19	~~0~~80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	AC	02	C1	F2						

[..]

27.22.4.26.2.4.2 Procedure

Expected Sequence 2.3 (LAUNCH BROWSER, if not already launched)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a Wap session (not default URL)..	[Browser is in use, the current session is not secured]

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: LAUNCH BROWSER 2.3.1	[connect to the default URL, "launch browser, if not already launched]
~~8~~4	ME → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 2.3.1	[ME unable to process command - browser unavailable]
5~~9~~	SIM → ME	PROACTIVE SIM SESSION ENDED	
~~10~~6	USER → ME	The user verifies that the default URL has not been connected. Then he/she ends the navigation. The ME returns in idle mode.	

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	
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	[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	

TERMINAL RESPONSE: RECEIVE DATA 1.1.1

Logically:

Command details
- Command number: 1
- Command type: RECEIVE DATA
- Command qualifier: RFU

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

Result

General Result: Command performed successfully
Channel Data : 00 01 02 .. C7 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	~~xx~~00	~~xx~~01	~~xx~~02	..	C7	B7	01	FF		
	~~B7~~	~~01~~	~~FF~~									

TERMINAL RESPONSE: RECEIVE DATA 1.1.2

Logically:

Command details
Command number: 2
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel Data : C8 C9 CA .. FF 00 01 .. 8F (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	02	42	00	82	02	82	81	83	01	00
	B6	C8	~~xx~~C8	~~xx~~C9	CA~~xx~~	..	FF	00	01	02	..	8F
	B7	01	FF									

TERMINAL RESPONSE: RECEIVE DATA 1.1.3

Logically:

Command details
Command number: 3
Command type: RECEIVE DATA
Command qualifier: RFU
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel Data : 90 91 .. FF 00 01 – 57 (200 Bytes of data)
Channel data length: FF

Coding:

BER-TLV:	81	03	03	42	00	82	02	82	81	83	01	00
	B6	C8	~~xx~~90	~~xx~~91	~~xx~~92	..	FF	00	01	02	..	57
	B7	01	FF									

TERMINAL RESPONSE: RECEIVE DATA 1.1.4

Logically:

Command details
Command number: 4

Command type: RECEIVE DATA
Command qualifier: RFUDevice identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel Data : 58 59 .. FF 00 01 .. 1F (200 Bytes of data)
Channel data length: C8

Coding:

BER-TLV:	81	03	04	42	00	82	02	82	81	83	01	00
	B6	C8	~~xx~~58	~~xx~~59	~~xx~~5A	..	FF	00	01	02	..	1F
	B7	01	C8									

TERMINAL RESPONSE: RECEIVE DATA 1.1.5

Logically:

Command details
Command number: 5
Command type: RECEIVE DATA
Command qualifier: RFUDevice identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel Data: 20 21 .. E7 (200 Bytes of data)
Channel data length: 00

Coding:

BER-TLV:	81	03	01	42	00	82	02	82	81	83	01	00
	B6	C8	~~xx~~20	~~xx~~21	22~~xx~~	..	E7	B7	01	00		
	~~B7~~	~~01~~	~~00~~									

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 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
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	[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: SEND DATA 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SEND DATA
- Command qualifier: Send Immediately

Device identities
- Source device: SIM
- Destination device: Channel 1

Channel Data
- Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	13	81	03	01	43	01	82	02	81	21	B6
	08	~~xx~~00	~~xx~~01	~~xx~~02	~~xx~~03	~~xx~~04	~~xx~~05	~~xx~~06	~~xx~~07			

TERMINAL RESPONSE: SEND DATA 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SEND DATA
- Command qualifier: Send Immediately

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

Result
- General Result: Command performed successfully
- Channel data length: 8 Bytes

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	08								

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	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	
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	[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]

PROACTIVE COMMAND: SEND DATA 1.2.1

Logically:

Command details
- Command number: 1
- Command type: SEND DATA
- Command qualifier: Store mode

Device identities
- Source device: SIM
- Destination device: Channel 1

Channel Data
- Channel Data : 00 01 .. C7 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	~~xx~~00	~~xx~~01	..	C7					

TERMINAL RESPONSE: SEND DATA 1.2.1

Logically:

Command details
- Command number: 1
- Command type: SEND DATA
- Command qualifier: Store mode

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

Result
- General Result: Command performed successfully
- Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.2.2

Logically:

Command details
- Command number: 1
- Command type: SEND DATA
- Command qualifier: Store mode

Device identities
- Source device: SIM
- Destination device: Channel 1

Channel Data
- Channel Data : C8 C9 .. FF 00 01 .. 8E (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	~~xx~~C8	~~xx~~C9	..	FF	00	01	..	8F	

TERMINAL RESPONSE: SEND DATA 1.2.2

Logically:

Command details
- Command number: 1
- Command type: SEND DATA
- Command qualifier: Store mode

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

Result
- General Result: Command performed successfully
- Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.2.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Immediate mode
Device identities
Source device: SIM
Destination device: Channel 1
Channel Data
Channel Data : 90 91 .. F3 (100 Bytes of data)

Coding:

BER-TLV:	D0	6F	81	03	01	43	01	82	02	81	21	B6
	64	~~xx~~90	~~xx~~91	~~xx~~..	~~xx~~F3	~~..~~						

TERMINAL RESPONSE: SEND DATA 1.2.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Immediate mode
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	FF									

Expected sequence 1.3 (SEND DATA, Store mode, Tx buffer fully used)

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	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]

PROACTIVE COMMAND: SEND DATA 1.3.1

Logically:

Command details
- Command number: 1
- Command type: SEND DATA
- Command qualifier: Store mode

Device identities
- Source device: SIM
- Destination device: Channel 1

Channel Data
- Channel Data : 00 01 02 .. C7 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	~~xx~~00	~~xx~~01	~~..~~02	…	C7				

TERMINAL RESPONSE: SEND DATA 1.3.1

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.3.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: SIM
Destination device: Channel 1
Channel Data
Channel Data : C8 C9 CA .. FF 00 01 .. 8F (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	~~xx~~C8	~~xx~~C9	~~..~~CA	…	FF	00	01	..	8F

TERMINAL RESPONSE: SEND DATA 1.3.2

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	21	82	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.3.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: SIM
Destination device: Channel 1
Channel Data
Channel Data : 90 91 .. FF 00 01 .. 57 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	~~xx~~90	~~xx~~91	..	FF	00	01	..	57	

TERMINAL RESPONSE: SEND DATA 1.3.3

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	FF									

PROACTIVE COMMAND: SEND DATA 1.3.4

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: SIM
Destination device: Channel 1
Channel Data
Channel Data : 58 59 .. FF 00 01 .. 1F (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	00	82	02	81	21
	B6	81	C8	~~xx~~58	~~xx~~59	..	FF	00	01	..	1F	

TERMINAL RESPONSE: SEND DATA 1.3.4

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Store mode
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel data length: 200 bytes of space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	00	82	02	82	81	83	01	00
	B7	01	C8									

PROACTIVE COMMAND: SEND DATA 1.3.5

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: SIM
Destination device: Channel 1
Channel Data
Channel Data: 20 21 .. E7 (200 Bytes of data)

Coding:

BER-TLV:	D0	81	D4	81	03	01	43	01	82	02	81	21
	B6	81	C8	20~~xx~~	~~xx~~21	..	E7					

TERMINAL RESPONSE: SEND DATA 1.3.5

Logically:

Command details
Command number: 1
Command type: SEND DATA
Command qualifier: Send Immediately
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Channel data length: No space available in the Tx buffer

Coding:

BER-TLV:	81	03	01	43	01	82	02	82	81	83	01	00
	B7	01	00									

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 CHANNEL1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
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	[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 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
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	[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 channel number]

PROACTIVE COMMAND: SEND DATA 1.5.1

Logically:

Command details
- Command number: 1
- Command type: SEND DATA
- Command qualifier: Send Immediately

Device identities
- Source device: SIM
- Destination device: Channel 2

Channel Data
- Channel Data : 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	13	81	03	01	43	01	82	02	81	22	B6
	08	00~~xx~~	01~~xx~~	02~~xx~~	03~~xx~~	04~~xx~~	05~~xx~~	06~~xx~~	07~~xx~~			

[..]

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 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
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	[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]

PROACTIVE COMMAND: SEND DATA 1.6.1

Logically:

Command details
- Command number: 1
- Command type: SEND DATA
- Command qualifier: Send Immediately

Device identities
- Source device: SIM
- Destination device: Channel 1

Alpha Identifier : Send data

Channel Data
- Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

BER-TLV:	D0	1E	81	03	01	43	01	82	02	81	21	85
	09	53	65	6E	64	20	64	61	74	61	B6	08
	00~~xx~~	01~~xx~~	02~~xx~~	03~~xx~~	04~~xx~~	05~~xx~~	06~~xx~~	07~~xx~~				

[..]

27.22.4.31.4.2 Procedure

[..]

Expected sequence 1.3 (GET STATUS, after a link dropped)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Command performed successfully]
~~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~~2~~	ME → SIM	FETCH	
~~3~~7	SIM → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1A or PROACTIVE COMMAND: OPEN CHANNEL 1.1.1B	
8~~4~~	ME → SS	SETUP CALL	
~~5~~9	SS → ME	CONNECTED	
10~~6~~	ME → SIM	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
11~~7~~	SS → ME	DROP LINK	
12~~8~~	ME → SIM	ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1	[Link dropped]
13~~9~~	SIM → ME	PROACTIVE COMMAND PENDING: GET STATUS 1.3.1	
1~~0~~4	ME → SIM	FETCH	
15~~1~~	SIM → ME	PROACTIVE COMMAND: GET STATUS 1.3.1	
1~~2~~6	ME → SIM	TERMINAL RESPONSE: GET STATUS 1.3.1	[Command performed successfully]

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'
Device identities
Source device: SIM
Destination device: ME
Event list
Event 1: Channel Status

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82
	99	01	0A								

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details
Command number: 1
Command type: SET UP EVENT LIST
Command qualifier: '00'
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1

Logically:

Event list
Event list: Channel Status
Device identities
Source device: ME
Destination device: SIM
Channel status
Channel status: Channel 1, link dropped

Coding:

BER-TLV:	D6	0B	99	01	0A	82	02	82	81	B8	02	01
	05											

PROACTIVE COMMAND: GET STATUS 1.3.1

Logically:

Command details
Command number: 1
Command type: GET STATUS
Command qualifier: RFU
Device identities
Source device: SIM
Destination device: ME

Coding:

BER-TLV:	D0	09	81	03	01	44	00	82	02	81	82

TERMINAL RESPONSE: GET STATUS 1.3.1

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, link dropped

Coding:

BER-TLV:	81	03	01	44	00	82	02	82	81	83	01	00
	B8	02	01	05								

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	REGISTER 2.1~~The ME sends the supplementary service operation with the information as sent to the SIM~~	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
~~Address~~SS String
TON/NPI: ~~Unknown~~"FF"
~~NPI: "ISDN / telephone numbering plan" or "unknown"~~
Dialling number string "*21~~*~~#"
Location Information
MCC & MNC the mobile country and network code (F110)
LAC the location Area Code (1)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	~~13~~12	82	02	82	81	89	04~~1~~3	FF~~81~~	2A	~~A~~B1	~~FB~~13
	07~~13~~	00~~07~~	~~00~~F1	~~F1~~10	00~~10~~	~~00~~01	~~01~~00	01~~00~~	~~01~~			

27.22.7.1.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD -MT Call event)

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
5	SS → ME	CALL SET UP without CLI	[MT Call Set Up Without CLI]
6	ME → SIM	ENVELOPE: EVENT DOWNLOAD - MT Call 1.1.1	
7	SS → ME	CALL DISCONNECT	
8	SS → ME	CALL SET UP with CLI	[MT Call Set Up With CLI]
9	ME → SIM	ENVELOPE: EVENT DOWNLOAD - MT Call 1.1.2	
10	SS → ME	CALL DISCONNECT	
~~11~~	~~SS → ME~~	~~CALL SET UP with CLI and sub-address~~	~~[MT Call Set Up with CLI and sub-address]~~
~~12~~	~~ME → SIM~~	~~ENVELOPE: EVENT DOWNLOAD - MT Call 1.1.3~~	
~~13~~	~~SS → ME~~	~~CALL DISCONNECT~~	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Event list
- Event 1: MT call

Coding:

BER-TLV:	D0	0C	81	03	01	05	00	82	02	81	82	99
	01	00										

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details
- Command number: 1
- Command type: SET UP EVENT LIST
- Command qualifier: '00'

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	05	00	82	02	82	81	83	01	00

EVENT DOWNLOAD - MT CALL 1.1.1

Logically:

Event list: MT call event
Device identities
Source device: Network
Destination device: SIM
Transaction identifier:
Ti value: 0 (bit 5-7)
Ti flag: 0 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	00	82	02	83	81	1C	01	00

EVENT DOWNLOAD - MT CALL 1.1.2

Logically:

Event list: MT call event
Device identities
Source device: Network
Destination device: SIM
Transaction identifier:
Ti value: 0 (bit 5-7)
Ti flag: 0 (bit 8)
Address:
TON Unknown
NPI "ISDN / telephone numbering plan"
Dialling number string "9876"

Coding:

BER-TLV:	D6	0F	19	01	00	82	02	83	81	1C	01	00
	86	03	90	89	67							

~~EVENT DOWNLOAD - MT CALL 1.1.3~~

~~Logically:~~

~~Event list: MT call event~~
~~Device identities~~
~~Source device: Network~~
~~Destination device: SIM~~
~~Transaction identifier:~~
~~Ti value: 0 (bit 5-7)~~
~~Ti flag: 0 (bit 8)~~
~~Address :~~
~~TON Unknown~~
~~NPI "ISDN / telephone numbering plan"~~
~~Dialling number string "9876"~~
~~Called party subaddress~~
~~Type of subaddress: NSAP (X.213 / ISO 8348 AD2)~~
~~Odd / even indicator: even number of address signals~~
~~Subaddress information: AFI, 95, 95, 95, 95, 95~~

~~Coding:~~

~~BER-TLV:~~	~~D6~~	~~18~~	~~19~~	~~01~~	~~00~~	~~82~~	~~02~~	~~83~~	~~81~~	~~1C~~	~~01~~	~~00~~
	~~86~~	~~03~~	~~91~~	~~89~~	~~67~~	~~88~~	~~07~~	~~80~~	~~50~~	~~95~~	~~95~~	~~95~~
	~~95~~	~~95~~										

3GPP TSG-T3 Meeting #30 **T3-040149**
Sophia-Antipolis, France, 9th-13th February 2004

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A062** ⌘ **rev** **-** ⌘ Current version: **8.6.0** ⌘

*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:	⌘	Essential correction on Terminal Profile for the BIP Inclusion of tests on Open Channel for GPRS, on the user confirmation
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	11/02/04
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 last changes on BIP for GPRS are not reflected in the Table E1 (Annex E) about Terminal Profile - A recent change in the 11.14 R99 (TP-030249) was approved on the "user confirmation phase" on BIP using GPRS, depending on the Alpha-ID. This test specification is modified accordingly.
Summary of change:	⌘	- Corrections in the Table E1 and table, with inclusion of CSD and GPRS test cases - Correction on "user confirmation" in test sequences 2.1, 2.2, 2.4, 2.5 and suppression of Test Sequence 2.6
Consequences if not approved:	⌘	Confusion on Terminal Profile required for BIP Testing Inconsistence with core specification on user confirmation phase

Clauses affected:	⌘	3.4, 27.22.4.27.2.4.2, Annex E

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	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
								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	Support
	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	Support
								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	Support
	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	**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	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
								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	Support
								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**								
	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	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
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	
	CSD, ME busy on call	R99	1.10				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	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
	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	
	(Void)~~immediate link establishment, GPRS, User did not accept the proactive command~~	(Void)~~R99~~	2.6				(Void)~~C121~~	(Void)~~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 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	

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 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	
	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	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
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	
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	

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	
	27.22.7.5: 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	
41	**MO SMS Control by SIM 27.22.8**								
	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	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
								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	

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_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)

27.22.4.27.2.4.2 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~~The ME may display channel opening information	
~~5~~	~~user → ME~~	~~The user confirms~~	
~~6~~5	ME → SS	SETUP CALL	
6~~7~~	SS → ME	CONNECTED	
7~~8~~	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.1.1	[Command performed successfully]

[…]

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	The ME may display channel opening information~~Confirmation phase~~	
~~5~~	~~user → ME~~	~~The user confirms~~	
~~6~~5	ME → SS	SETUP CALL	
6~~7~~	SS → ME	CONNECTED	
7~~8~~	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.2.1	[Command performed successfully]

[…]

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	[The ME should not give any information]
5	user → ME	The user confirms	[Only if the ME asks for user confirmation]
6	ME → SS	SETUP CALL	
7	SS → ME	CONNECTED	
8	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.1.1	[Command performed successfully]

[…]

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	The ME may display channel opening information~~Confirmation phase~~	
~~5~~	~~user → ME~~	~~The user confirms~~	
~~6~~5	ME → SS	SETUP CALL	
6~~7~~	SS → ME	CONNECTED	
7~~8~~	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.5.1	[Command performed with modification]

[…]

Expected Sequence 2.6 (void) ~~(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	[The ME shall display "Open ID"]
5	user → ME	The user rejects	
6	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.~~6~~7.1	[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							

TERMINAL RESPONSE: OPEN CHANNEL 2.7.1

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: 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											

Annex E (normative): Details of terminal profile support

Table E.1: TERMINAL PROFILE support

Item	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
1	Profile Download	3GPP TS 11.14, 5	R96	M		PD_Pro_Dvnl
2	SMS-PP data download	3GPP TS 11.14, 5	R96	C201		PD_SMS_PP
3	Cell Broadcast data download	3GPP TS 11.14, 5	R96	C202		PD_CB
4	Menu selection	3GPP TS 11.14, 5	R96	M		PD_Menu_sel
5	'9EXX' response code for SIM data download error	3GPP TS 11.14, 5	R97	M		PD_9EXX
6	Timer expiration	3GPP TS 11.14, 5	R98	M		PD_TExpir
7	USSD string data object supported in Call Control	3GPP TS 11.14, 5	R98	M		PD_CC_USSD_Str
8	Envelope Call Control always sent to the SIM during automatic redial mode	3GPP TS 11.14, 5	R99	M		PD_CC_Auto_Redial
9	Command result	3GPP TS 11.14, 5	R96	M		PD_Cmd_Res
10	Call Control by SIM	3GPP TS 11.14, 5	R96	M		PD_CC
11	Cell identity included in Call Control by SIM	3GPP TS 11.14, 5	R97	M		PD_CC_Cell_Id
12	MO short message control by SIM	3GPP TS 11.14, 5	R98	M		PD_MO_SMS_CC
13	Handling of the alpha identifier	3GPP TS 11.14, 5	R97	M		PD_Alpha _Id
14	UCS2 Entry supported	3GPP TS 11.14, 5	R97	C203		PD_UCS2_entry
15	UCS2 Display supported	3GPP TS 11.14, 5	R97	C203		PD_UCS2_Display
16	Display of the extension text	3GPP TS 11.14, 5	R98	C205		PD_Disp_Ext_Text
17	DISPLAY TEXT	3GPP TS 11.14, 5	R96	M		PD_Display_Text
18	GET INKEY	3GPP TS 11.14, 5	R96	M		PD_Get_Inkey
19	GET INPUT	3GPP TS 11.14, 5	R96	M		PD_Get_Input
20	MORE TIME	3GPP TS 11.14, 5	R96	M		PD_More_Time
21	PLAY TONE	3GPP TS 11.14, 5	R96	M		PD_Play_Tone
22	POLL INTERVAL	3GPP TS 11.14, 5	R96	M		PD_Poll_interval
23	POLLING OFF	3GPP TS 11.14, 5	R96	M		PD_Polling_Off
24	REFRESH	3GPP TS 11.14, 5	R96	M		PD_Refresh
25	SELECT ITEM	3GPP TS 11.14, 5	R96	M		PD_Select_Item
26	SEND SHORT MESSAGE	3GPP TS 11.14, 5	R96	M		PD_Send_SMS
27	SEND SS	3GPP TS 11.14, 5	R96	M		PD_Send_SS
28	SEND USSD	3GPP TS 11.14, 5	R98	M		PD_Send_USSD
29	SET UP CALL	3GPP TS 11.14, 5	R96	M		PD_SetUp_Call
30	SET UP MENU	3GPP TS 11.14, 5	R96	M		PD_SetUp_Menu
31	PROVIDE LOCAL INFORMATION (LOCI & IMEI)	3GPP TS 11.14, 5	R96	M		PD_Provide_Local

Item	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
32	PROVIDE LOCAL INFORMATION (NMR)	3GPP TS 11.14, 5	R97	M		PD_Provide_Local_NMR
33	SET UP EVENT LIST	3GPP TS 11.14, 5	R98	M		PD_Setup_Evt_List
34	Event: MT call	3GPP TS 11.14, 5	R98	M		PD_MT_Call
35	Event: Call connected	3GPP TS 11.14, 5	R98	M		PD_Call_Conn
36	Event: Call disconnected	3GPP TS 11.14, 5	R98	M		PD_Call_Disc
37	Event: Location status	3GPP TS 11.14, 5	R98	M		PD_Loc_Status
38	Event: User activity	3GPP TS 11.14, 5	R98	M		PD_User_Act
39	Event: Idle screen available	3GPP TS 11.14, 5	R98	M		PD_Idle_Scr_Avail
40	Event: Card reader status	3GPP TS 11.14, 5	R98	C206		PD_Evt_Rdr_Status
41	Event: Language selection	3GPP TS 11.14, 5	R99	M		PD_Lang_Select
42	Event: Browser Termination	3GPP TS 11.14, 5	R99	C212		PD_Browser_Term
43	Event: Data available	3GPP TS 11.14, 5	R99	~~C207~~ C223		PD_Data_Avail
44	Event: Channel status	3GPP TS 11.14, 5	R99	C223 ~~C207~~		PD_Evt_Ch_Status
45	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_45
46	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_46
47	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_47
48	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_48
49	POWER ON CARD	3GPP TS 11.14, 5	R98	C206		PD_C_On
50	POWER OFF CARD	3GPP TS 11.14, 5	R98	C206		PD_C_Off
51	PERFORM CARD APDU	3GPP TS 11.14, 5	R98	C206		PD_C_APDU
52	GET READER STATUS (Card reader status)	3GPP TS 11.14, 5	R98	C206		PD_Get_Rdr_Status
53	GET READER STATUS (Card reader identifier)	3GPP TS 11.14, 5	R99	C208		PD_Get_Rdr_Id
54	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_54
55	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_55
56	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_56
57	TIMER MANAGEMENT (start, stop)	3GPP TS 11.14, 5	R98	M		PD_Timer_Mgt_Start_Stop
58	TIMER MANAGEMENT (get current value)	3GPP TS 11.14, 5	R98	M		PD_Timer_Val
59	PROVIDE LOCAL INFORMATION (date, time and time zone)	3GPP TS 11.14, 5	R98	M		PD_Provide_Local_D_Time
60	Binary choice in GET INKEY	3GPP TS 11.14, 5	R98	M		PD_Bin_Get_Inkey
61	SET UP IDLE MODE TEXT	3GPP TS 11.14, 5	R98	M		PD_Stup_Id_Mod_Txt
62	RUN AT COMMAND (i.e. class "b" is supported)	3GPP TS 11.14, 5	R98	C209		PD_Run_AT
63	2nd alpha identifier in SET UP CALL	3GPP TS 11.14, 5	R98	M		PD_SetUp_Call_Sec_Alpha_Id
64	2nd capability configuration parameter	3GPP TS 11.14, 5	R98	C210		PD_Cap_Conf_Param
65	Sustained DISPLAY TEXT	3GPP TS 11.14, 5	R98	C211		PD_Sustained_Displ_Txt
66	SEND DTMF command	3GPP TS 11.14, 5	R98	M		PD_Send_DTMF
67	PROVIDE LOCAL INFORMATION - BCCH	3GPP TS 11.14, 5	R98	M		PD_Provide_Local_BCCH_List
68	PROVIDE LOCAL INFORMATION (language)	3GPP TS 11.14, 5	R99	M		PD_Provide_Local_LS
69	PROVIDE LOCAL INFORMATION (Timing Advance)	3GPP TS 11.14, 5	R99	M		PD_Provide_Local_TA
70	LANGUAGE NOTIFICATION	3GPP TS 11.14, 5	R99	M		PD_Lang_Notif
71	LAUNCH BROWSER	3GPP TS 11.14, 5	R99	C212		PD_Launch_Brws
72	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_72
73	Soft keys support for SELECT ITEM	3GPP TS 11.14, 5	R99	C213		PD_Softkey_Select_Item

Item	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
74	Soft Keys support for SET UP MENU	3GPP TS 11.14, 5	R99	C213		PD_Softkey_SetUp_Menu
75	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_75
76	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_76
77	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_77
78	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_78
79	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_79
80	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_80
81	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 11.14, 5	R99	C214		PD_Max_SoftKey
82	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 11.14, 5	R99	C214		PD_Max_SoftKey
83	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 11.14, 5	R99	C214		PD_Max_SoftKey
84	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 11.14, 5	R99	C214		PD_Max_SoftKey
85	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 11.14, 5	R99	C214		PD_Max_SoftKey
86	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 11.14, 5	R99	C214		PD_Max_SoftKey
87	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 11.14, 5	R99	C214		PD_Max_SoftKey
88	Maximum number of soft keys available ('FF' = RFU)	3GPP TS 11.14, 5	R99	C124		PD_Max_SoftKey
89	OPEN CHANNEL	3GPP TS 11.14, 5	R99	C223 ~~C207~~		PD_Open_Ch
90	CLOSE CHANNEL	3GPP TS 11.14, 5	R99	C223 ~~C207~~		PD_Close_Ch
91	RECEIVE DATA	3GPP TS 11.14, 5	R99	C223 ~~C207~~		PD_Rx_Data
92	SEND DATA	3GPP TS 11.14, 5	R99	C223 ~~C207~~		PD_Send_Data
93	GET CHANNEL STATUS	3GPP TS 11.14, 5	R99	C223 ~~C207~~		PD_Get_Ch_Status
94	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_94
95	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_95
96	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_96
97	CSD supported by ME	3GPP TS 11.14, 5	R99	C207		PD_CSD
98	GPRS supported by ME	3GPP TS 11.14, 5	R99	~~C215~~ C222		PD_GPRS
99	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_99
100	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_100
101	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_101
102	Number of channels supported by ME	3GPP TS 11.14, 5	R99	~~C207~~ C223		PD_Nb_Channel
103	Number of channels supported by ME	3GPP TS 11.14, 5	R99	C223 ~~C207~~		PD_Nb_Channel
104	Number of channels supported by ME	3GPP TS 11.14, 5	R99	C223 ~~C207~~		PD_Nb_Channel
105	Number of characters supported down the ME	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char
106	Number of characters supported down the ME	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char
107	Number of characters supported down the ME	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char
108	Number of characters supported down the ME	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char
109	Number of characters supported down the ME	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char
110	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_110
111	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_111
112	Screen Sizing Parameters	3GPP TS 11.14, 5	R99	C216		PD_Screen_Siz

Item	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
113	Number of characters supported across the ME display	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char_Disp
114	Number of characters supported across the ME display	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char_Disp
115	Number of characters supported across the ME display	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char_Disp
116	Number of characters supported across the ME display	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char_Disp
117	Number of characters supported across the ME display	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char_Disp
118	Number of characters supported across the ME display	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char_Disp
119	Number of characters supported across the ME display	3GPP TS 11.14, 5	R99	C217		PD_Nb_Char_Disp
120	Variable size fonts Supported	3GPP TS 11.14, 5	R99	C217		PD_Var_Font
121	Display can be resized	3GPP TS 11.14, 5	R99	C218		PD_Disp_Resiz
122	Text Wrapping supported	3GPP TS 11.14, 5	R99	C218		PD_Txt_Wrap
123	Text Scrolling supported	3GPP TS 11.14, 5	R99	C218		PD_Txt_Scroll
124	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_124
125	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_125
126	Width reduction when in a menu	3GPP TS 11.14, 5	R99	C217		PD_Width_Reduc
127	Width reduction when in a menu	3GPP TS 11.14, 5	R99	C217		PD_Width_Reduc
128	Width reduction when in a menu	3GPP TS 11.14, 5	R99	C217		PD_Width_Reduc
129	TCP	3GPP TS 11.14, 5	R99	C220		PD_TCP
130	UDP	3GPP TS 11.14, 5	R99	C221		PD_UDP
131	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_131
132	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_132
133	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_133
134	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_134
135	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_135
136	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_136
137	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_137
138	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_138
139	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_139
140	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_140
141	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_141
142	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_142
143	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_143
144	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_144
145	Protocol Version	3GPP TS 11.14, 5	R99	TBD		
146	Protocol Version	3GPP TS 11.14, 5	R99	TBD		
147	Protocol Version	3GPP TS 11.14, 5	R99	TBD		
148	Protocol Version	3GPP TS 11.14, 5	R99	TBD		
149	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_149
150	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_150
151	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_151
152	RFU	3GPP TS 11.14, 5	R96	X		PD_RFU_152
C201	IF E.1/3 THEN O ELSE M			-- PD_CB		
C202	IF E.1/2 THEN O ELSE M			-- PD_SMS_PP		

Item	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
C203	IF A.1/3 THEN M			--		O_Ucs2_Entry
C204	IF A.1/14 THEN M			--		O_Ucs2_Disp
C205	IF A.1/4 THEN M			--		O_Ext_Str
C206	IF A.1/7 THEN M			--		O_Dual_Slot
C207	IF A.1/12 THEN M			--		O_BIP_CSD
C208	IF (A.1/7 AND A.1/8) THEN M			--		O_Dual_Slot AND O_Detach_Rdr
C209	IF A.1/9 THEN M			--		O_Run_At
C210	IF A.1/1 THEN M			--		O_Cap_Conf
C211	IF A.1/2 THEN M			--		O_sust_text
C212	IF A.1/10 THEN M			--		O_LB
C213	IF A.1/11 THEN M			--		O_Softkey
C214	IF C213 THEN bit values "0" / "1" allowed			--		O_Softkey (parameters)
C215	Void~~IF C207 AND A.1/16~~			--		void~~O_BIP AND O_GPRS~~
C216	IF A.1/13 THEN M			--		O_Scr_Siz
C217	IF C217 THEN bit values "0" / "1" allowed			--		O_Scr_Siz (parameters)
C218	IF A.1/14 THEN M			--		O_Scr_Resiz
C219	IF C218 THEN bit values "0" / "1" allowed			--		O_Scr_Resiz (parameters)
C220	IF ~~C207 AND~~ A.1/18 THEN M			--		~~O_BIP AND~~ O_TCP
C221	IF ~~C207 AND~~ A.1/17 THEN M			--		~~O_BIP AND~~ O_UDP
C222	IF A.1/21 THEN M			--		O_BIP_GPRS
C223	IF (C207 OR C222) THEN M			--		O_BIP

Comments:
This static requirement for the TERMINAL PROFILE is specifying the bit coding of this command. In the support column a "Yes" (or "Y" or "y") means bit coding "1" and a "No" (or "N" or "n") and "X" means bit coding "0" in the command.

3GPP TSG-T3 Meeting #30
Sophia Antipolis, France, 09.-13.02.2004

T3-040152

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A063** ⌘ **rev** **-** ⌘ Current version: **8.6.0** ⌘

*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 Launch Browser test cases
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	12/02/2004
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:	⌘	Launch Browser: - Expected sequence 1.4 includes contradictionary terminal responses in the same sequence. Clarification is needed in which circumstances a special result value in a the terminal response shall be valid. - Expected sequence 1.5 is defined for GPRS, USSD, SMS bearers, whereas GPRS and CSD are the most commonly used bearers that should be tested instead.
Summary of change:	⌘	Expected sequence 1.4 describes the normal execution case for GPRS. Sequence 1.5 is split into several Expected Sequences to reflect the multiple bearers (GPRS, CDS) normal execution cases.
Consequences if not approved:	⌘	Expected sequences 1.4 and 1.5 of Launch browser are in contradiction in themselves and therefore insufficient.

Clauses affected:	⌘	27.22.4.26.1

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

Other comments:	⌘	

27.22.4.26.1 LAUNCH BROWSER (No session already launched)

27.22.4.26.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.1.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive SIM Command as defined in:

- 3GPP TS 11.14 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 12.6, clause 12.7, clause 12.48, clause 13.2, clause 12.2, clause 12.47, clause 12.49, clause 12.50, clause 12.15 and clause 12.31.

27.22.4.26.1.3 Test purpose

To verify that when the ME is in idle state, it launches properly the Wap session required in LAUNCH BROWSER, and returns a successful result in the TERMINAL RESPONSE command.

27.22.4.26.1.4 Method of test

27.22.4.26.1.4.1 Initial conditions

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

The elementary files are coded as SIM Application Toolkit default.

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

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL …) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The mobile is in idle mode.

27.22.4.26.1.4.2 Procedure

[..]

Expected Sequence 1.4 (LAUNCH BROWSER, only GPRS ~~one~~ bearer specified and gateway/proxy identity, GPRS supported by SS)

Step	Direction	MESSAGE / Action	Comments
0	ME		[the ME is in idle mode, GPRS supported by SS, GPRS supported by the ME and activated]
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.4.1	[connect to the default URL, "launch browser, if not already launched, 1 bearer specified, gateway/proxy id specified]
4	ME → USER	ME may display a default message	
5	USER → ME	The user may confirm the launch browser.	[option: user confirmation]

6	ME → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1 ~~A~~ ~~Or~~ ~~TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1 B~~ ~~Or~~ ~~TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1 C~~	[Command performed successfully] ~~[Launch browser generic error code - bearer not available]~~ ~~[Command performed with partial comprehension]~~
7	ME→SS	The ME attempts to connect the default URL using the requested bearer and proxy identity	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
9	USER → ME	~~If performed successfully:~~ T~~t~~he user verifies that the Wap session is properly established with the required bearer. Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.4.1

Logically:

Command details
- Command number: 1
- Command type: LAUNCH BROWSER
- Command qualifier: launch browser, if not already launched

Device identities
- Source device: SIM
- Destination device: ME
- URL: empty
- Bearer: GPRS

Gateway/Proxy id
- DCSunpacked, 8 bits data
- Text string: abc.def.ghi (different from the default IP address)

Coding::

BER-TLV:	D0	1C	81	03	01	15	00	82	02	81	82	31
	00	32	01	03	0D	0C	04	61	62	63	2E	64
	65	66	2E	67	68	69						

TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1 ~~A~~

Logically:

Command details
- Command number: 1
- Command type: LAUNCH BROWSER
- Command qualifier: launch browser, if not already launched

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

~~TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1 B~~

~~Logically:~~

~~Command details~~
~~Command number: 1~~
~~Command type: LAUNCH BROWSER~~
~~Command qualifier: launch browser, if not already launched~~
~~Device identities~~
~~Source device: ME~~
~~Destination device: SIM~~
~~Result~~
~~General Result: Launch browser generic error code~~
~~Additional information Bearer not available~~

~~Coding:~~

~~BER-TLV:~~	~~81~~	~~03~~	~~01~~	~~15~~	~~00~~	~~82~~	~~02~~	~~82~~	~~81~~	~~83~~	~~02~~	~~26~~
	~~01~~											

~~TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1 C~~

~~Logically:~~

~~Command details~~
~~Command number: 1~~
~~Command type: LAUNCH BROWSER~~
~~Command qualifier: launch browser, if not already launched~~
~~Device identities~~
~~Source device: ME~~
~~Destination device: SIM~~
~~Result~~
~~General Result: Command performed successfully, with partial comprehension~~

~~Coding:~~

~~BER-TLV:~~	~~81~~	~~03~~	~~01~~	~~15~~	~~00~~	~~82~~	~~02~~	~~82~~	~~81~~	~~83~~	~~01~~	~~01~~

Expected Sequence 1.5A (LAUNCH BROWSER, two~~several~~ bearers GPRS, CSD specified and activated at SS and ME, gateway/proxy id specified)

Step	Direction	MESSAGE / Action	Comments
0	ME		[ME is in idle mode]
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.5.1	[connect to the default URL, "launch browser, if not already launched, several bearers, gateway/proxy id specified]
4	ME → USER	ME may display a default message	
5	USER → ME	The user may confirm the launch browser.	[option: user confirmation]
6	ME → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1 ~~A~~	[Command performed successfully]
		~~Or~~	
		~~TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1 B~~	~~[Launch browser generic error code - bearer not available]~~
		~~Or~~	
		~~TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1 C~~	~~[Command performed with partial comprehension]~~

7	ME→SS	The ME attempts to connect the default URL.	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
9	USER → ME	~~If performed successfully:~~ T~~t~~he user verifies that the Wap session is properly established with ~~one of~~ the required bearer~~s~~ that is first in priority (GPRS). Then he/she ends the navigation. The ME returns in idle mode.	

PROACTIVE COMMAND: LAUNCH BROWSER 1.5.1

Logically:

Command details
- Command number: 1
- Command type: LAUNCH BROWSER
- Command qualifier: launch browser, if not already launched

Device identities
- Source device: SIM
- Destination device: ME
- URL: empty
- Bearer: GPRS, ~~USSD, SMS~~CSD

Gateway/Proxy id
- DCS: 7 bits default alphabet
- Text string: abc.def.ghi (different from the default IP address)

Coding::

BER-TLV:	D0	1C~~D~~	81	03	01	15	00	82	02	81	82	31
	00	32	02~~3~~	03	01~~2~~	0D~~0~~	0B~~D~~	00~~B~~	61~~00~~	F1~~61~~	D8~~F~~ ~~1~~	45~~D8~~
	2E~~45~~	9B~~2~~ ~~E~~	5D~~9~~ ~~B~~	675~~D~~	74~~67~~	1A~~74~~	~~1A~~					

TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1 ~~A~~

Logically:

Command details
- Command number: 1
- Command type: LAUNCH BROWSER
- Command qualifier: launch browser, if not already launched

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

Result
- General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00

Expected Sequence 1.5B (LAUNCH BROWSER, two bearers GPRS, CSD specified and activated at SS, only CSD supported and activated by the ME, gateway/proxy id specified)

Step	Direction	MESSAGE / Action	Comments
0	ME		[ME is in idle mode]

1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.5.1	[connect to the default URL, "launch browser, if not already launched", several bearers, gateway/proxy id specified]
4	ME → USER	ME asks for user confirmation	
5	USER → ME	The user confirms the launch browser.	
6	ME → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1	[Command performed successfully]
7	ME→SS	The ME attempts to connect the default URL.	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
9	USER → ME	The user verifies that the Wap session is properly established with the CSD bearer. Then he/she ends the navigation. The ME returns in idle mode.	

Expected Sequence 1.5C (LAUNCH BROWSER, only CSD bearer specified and activated at SS, GPRS and CSD supported and activated by the ME, gateway/proxy id specified)

Step	Direction	MESSAGE / Action	Comments
0	ME		[ME is in idle mode]
1	SIM → ME	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: LAUNCH BROWSER 1.5.1	[connect to the default URL, "launch browser, if not already launched", several bearers, gateway/proxy id specified]
4	ME → USER	ME asks for user confirmation	
5	USER → ME	The user confirms the launch browser.	
6	ME → SIM	TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1	[Command performed successfully]
7	ME→SS	The ME attempts to connect the default URL.	
8	SIM → ME	PROACTIVE SIM SESSION ENDED	
9	USER → ME	The user verifies that the Wap session is properly established with the CSD bearer. Then he/she ends the navigation. The ME returns in idle mode.	

~~TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1 B~~

~~Logically:~~

~~Command details~~
~~Command number: 1~~
~~Command type: LAUNCH BROWSER~~
~~Command qualifier: launch browser, if not already launched~~
~~Device identities~~
~~Source device: ME~~
~~Destination device: SIM~~
~~Result~~
~~General Result: Launch browser generic error code~~

Additional information Bearer not available

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	02	26
	01											

TERMINAL RESPONSE: LAUNCH BROWSER 1.5.1 C

Logically:

Command details
Command number: 1
Command type: LAUNCH BROWSER
Command qualifier: launch browser, if not already launched
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully, with partial comprehension

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	01

3GPP TSG-T3 Meeting #30
Sophia Antipolis, France, 09.-13.02.2004

T3-040157

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A065** ⌘ **rev** **-** ⌘ Current version: **8.6.0** ⌘

*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 correction of coding convention
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	12/02/2004
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:	⌘	Wrong term used to describe the content coding of serveral EFs and APDUs, because these are not BER-TLV structured
Summary of change:	⌘	Term “BER-TLV” replaced by “Coding” where applicable
Consequences if not approved:	⌘	Term describing the content coding and the structure of the content are contradictionary.

Clauses affected:	⌘	27.22.2, 27.22.4.17.1.4.2

	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_{CBMI} (Cell Broadcast Message Identifier)

Logically:

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

Coding:	0C	0C	FF	..	FF						

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

Logically:

Cell Broadcast Message Identifier 1: '10 01'

Coding:	10	01	FF	..	FF						

[..]

For the display of icon:

- Under the DF Telecom: creation of DF Graphics (5F50);
- Under the DF 5F50: creation of EF_{Img} (4F20, linear fixed file) and $EF_{Instance}$ (4FXX, transparent file).

EF_{Img} (Image, 4F20)

Record 1:

Logically:

Number of Actual Images Instances: 01
Image Instance Width: 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~~Coding:	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~~Coding:	01	08	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~~Coding:	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~~Coding:	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~~Coding:	01	05	05	11	4F	05	00	00	00	08	FF	FF
	FF	FF	FF	FF	FF	FF						

$EF_{Instance}$ (4F01)

Logically:

Image Instance Data: see below

Coding:

~~BER-TLV~~Coding:	2E	28	00	00	00	00	00	00	00	01	FF	80
	00	00	00	0F	FF	00	00	00	00	77	FE	00
	00	00	01	BF	F8	00	00	00	06	FF	E0	00
	00	00	1A	03	80	00	00	00	6B	F6	BC	00
	00	01	AF	D8	38	00	00	06	BF	60	20	00
	00	1A	FD	80	40	00	00	6B	F6	00	80	00
	01	A0	1F	02	00	00	06	FF	E4	04	00	00
	1B	FF	90	10	00	00	6D	EE	40	40	00	01
	BF	F9	01	00	00	6F	FF	E4	04	00	00	1B
	FF	90	10	00	00	6F	FE	40	40	00	01	BF
	F9	01	00	00	06	FF	E6	04	00	00	1B	FF
	88	10	00	00	6F	FE	20	40	00	01	BF	F8
	66	00	00	06	FF	E0	F0	00	00	1B	FF	80
	80	00	00	7F	FE	00	00	00	03	00	0C	00
	00	00	1F	FF	F8	00	00	00	00	00	00	00
	00	00	00	00	00	00	00	00	00	00	00	00
	1C	21	08	44	EE	00	48	C4	31	92	20	01
	25	11	45	50	80	07	14	45	15	43	80	12
	71	1C	4D	08	00	4A	24	89	32	20	01	C8
	9E	24	4E	E0								

$EF_{Instance}$ (4F02)

Logically:

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

Coding:

~~BER-TLV~~Coding:	08	08	02	03	00	16	AA	AA	80	02	85	42
	81	42	81	42	81	52	80	02	AA	AA	FF	00
	00	00	FF	00	00	00	FF					

$EF_{Instance}$ (4F03)

Logically:

Image Instance Data: see below

Coding:

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

$EF_{Instance}$ (4F04)

Logically:

Image Instance Data: see below

Coding:

Coding~~BER-TLV~~:	08	08	FF	03	A5	99	99	A5	C3	FF

$EF_{Instance}$ (4F05)

Logically:

Image Instance Data: see below

Coding:

Coding~~BER-TLV~~:	05	05	FE	EB	BF	FF	FF	FF

[..]

27.22.4.17.1.4.2 Procedure

Expected Sequence 1.1 (PERFORM CARD APDU, card reader 1, additional card inserted, Select MF and Get Response)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER ON CARD 1.1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	ANSWER TO RESET 1.1	[ATR]
6	ME → SIM	TERMINAL RESPONSE: POWER ON CARD 1.1.1	[ATR]
7	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.1.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.1	[Select Masterfile]
10	ME → SIM2	C-APDU: SELECT 1.1	[Select Masterfile]
11	SIM2 → ME	R-APDU: SELECT 1.1	[Command performed successfully - length '1B' of response data]
12	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.1.1	
13	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.1.2	
14	ME → SIM	FETCH	
15	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.1.2	[Get Response with length '1B']
16	ME → SIM2	C-APDU: GET RESPONSE 1.1	[Get Response with length '1B']
17	SIM2 → ME	R-APDU: GET RESPONSE 1.1	[Response data with length '1B']
18	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.1.2	[Response data with length '1B']

[..]

ANSWER TO RESET 1.1

Logically:

TS (Initial character):	'3B'
T0 (Format character):	'86' (Following interface characters: TD(1), number of historical characters: 6)
TD1:	'00' (Following interface characters: none, Transfer protocol: T=0)
T1:	91
T2:	99
T3:	00
T4:	12
T5:	C1
T6:	00

Coding:

Coding~~BER-TLV~~:	3B	86	00	91	99	00	12	C1	00

C-APDU: SELECT 1.1

Logically:

C-APDU
- Class: 'A0'
- Instruction: SELECT
- P1 parameter: '00'
- P2 parameter: '00'
- Lc: '02'
- Data: Master File

Coding:

~~BER-TLV~~Coding:	A0	A4	00	00	02	3F	00

R-APDU: SELECT 1.1

Logically:

Status Words
- SW1 / SW2: Command performed successfully - length '1B' of response data

Coding:

~~BER-TLV~~Coding:	9F	1B

C-APDU: GET RESPONSE 1.1

Logically:

C-APDU
- Class: 'A0'
- Instruction: GET RESPONSE
- P1 parameter: '00'
- P2 parameter: '00'
- Le: '1B'

Coding:

Coding~~BER-TLV~~:	A0	C0	00	00	1B

R-APDU: GET RESPONSE 1.1

Logically:

R-APDU data
- RFU: '00 00'
- Not allocated memory: '653 bytes'
- File ID: Master File
- Type of file: MF
- RFU: 00 00 22 FF 01'
- Length of following data: 14 bytes'
- File characteristics:
  - Clock Stop: Not allowed
  - Min. frequence for GSM algorithm: 13/8 MHz

Technology identification:	3V Technology SIM
CHV1:	disabled
DFs in current directory:	2
EFs in current directory:	8
Number of CHV and admin. Codes:	3
RFU byte 18:	00
CHV1 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized
Unlock CHV1 status:	
False representations remaining:	10
RFU-bits 7-5:	000
Secret code:	Initialized
CHV2 status:	
False representations remaining:	3
RFU-bits 7-5:	000
Secret code:	Initialized
Unlock CHV2 status:	
False representations remaining:	10
RFU-bits 7-5:	000
Secret code:	Initialized
RFU bytes 23:	00
Reserved for admin. management:	00 83 00 FF
Status Words	
SW1 / SW2:	Normal ending of command

Coding:

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

[..]

Expected Sequence 1.2 (PERFORM CARD APDU, card reader 1, additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: POWER ON CARD 1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: POWER ON CARD 1.1	[Power on card reader 1]
4	ME → SIM2	RESET CARD	[Perform electrical initialization]
5	SIM2 → ME	ANSWER TO RESET 1.1	[ATR]
6	ME → SIM	TERMINAL RESPONSE: POWER ON CARD 1.1	[ATR]
7	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.1	
8	ME → SIM	FETCH	
9	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.1	[Select GSM]
10	ME → SIM2	C-APDU: SELECT 1.2a	[Select GSM]
11	SIM2 → ME	R-APDU: SELECT 1.2a	
12	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.1	
13	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.2	
14	ME → SIM	FETCH	

Step	Direction	MESSAGE / Action	Comments
15	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.2	[Select PLMN]
16	ME → SIM2	C-APDU: SELECT 1.2b	[Select PLMN]
17	SIM2 → ME	R-APDU: SELECT 1.2b	
18	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.2	
19	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.3	
20	ME → SIM	FETCH	
21	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.3	[Update Binary]
22	ME → SIM2	C-APDU: UPDATE BINARY 1.2	[Update Binary]
23	SIM2 → ME	R-APDU: UPDATE BINARY 1.2	
24	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3	
25	SIM → ME	PROACTIVE COMMAND PENDING: PERFORM CARD APDU 1.2.4	
26	ME → SIM	FETCH	
27	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.4	[Read Binary]
28	ME → SIM2	C-APDU: READ BINARY 1.2	[Read Binary]
29	SIM2 → ME	R-APDU: READ BINARY 1.2	
30	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.4	
31	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.2.5	[Update Binary]
32	ME → SIM2	C-APDU: UPDATE BINARY 1.2a	[Update Binary]
33	SIM2 → ME	R-APDU: UPDATE BINARY 1.2	
34	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.2.3	

[..]

C-APDU: SELECT 1.2a

Logically:

C-APDU

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

Coding:

Coding~~BER TLV~~:	A0	A4	00	00	02	7F	20

C-APDU: SELECT 1.2b

Logically:

C-APDU

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

Data: EF PLMN

Coding:

Coding~~BER-TLV~~:	A0	A4	00	00	02	6F	30

C-APDU: UPDATE BINARY 1.2

Logically:

C-APDU
Class: 'A0'
Instruction: UPDATE BINARY
P1 parameter: '00'
P2 parameter: '00'
Lc: '18'
Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'

Coding:

Coding~~BER-TLV~~:	A0	D6	00	00	18	00	01	02	03	04	05	06
	07	08	09	0A	0B	0C	0D	0E	0F	10	11	12
	13	14	15	16	17							

C-APDU: READ BINARY 1.2

Logically:

C-APDU
Class: 'A0'
Instruction: READ BINARY
P1 parameter: '00'
P2 parameter: '00'
Le: '18'

Coding:

~~BER-TLV~~Coding:	A0	B0	00	00	18

C-APDU: UPDATE BINARY 1.2a

Logically:

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

Coding:

~~BER-TLV~~Coding:	A0	D6	00	00	18	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
	FF	FF	FF	FF	FF							

R-APDU: SELECT 1.2a

Logically:

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

Coding:

~~BER-TLV~~Coding:	9F	1B

R-APDU: SELECT 1.2b

Logically:

Status Words
SW1 / SW2: Normal ending of command - length '0F' of response data

Coding:

~~BER-TLV~~Coding:	9F	0F

R-APDU: UPDATE BINARY 1.2

Logically:

Status Words
SW1 / SW2: Normal ending of command

Coding:

~~BER-TLV~~Coding:	90	00

R-APDU: READ BINARY 1.2

Logically:

R-APDU data
Data: '00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0B 0E 0F 10 11 12 13 14 15 16 17'
Status Words
SW1 / SW2: Normal ending of command

Coding:

~~BER-TLV~~Coding:	00	01	02	03	04	05	06	07	08	09	0A	0B
	0C	0D	0E	0F	10	11	12	13	14	15	16	17
	90	00										

[..]

Expected Sequence 1.5 (PERFORM CARD APDU, card reader 7 (which is not the valid card reader identifier of the additional ME card reader))

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: PEFORM CARD APDU 1.5.1	[invalid card reader ID]
3	ME → SIM	FETCH	
4	SIM → ME	PROACTIVE COMMAND: PERFORM CARD APDU 1.5.1	[Select Master File]
5	ME → SIM	TERMINAL RESPONSE: PERFORM CARD APDU 1.5.1	[Specified reader not valid]

[..]

C-APDU: SELECT 1.1

Logically:

C-APDU

Class:	'A0'
Instruction:	SELECT
P1 parameter:	'00'
P2 parameter:	'00'
Lc:	'02'
Data:	Master File

Coding:

Coding~~BER-TLV~~:	A0	A4	00	00	02	3F	00