3GPP TSG-T (Terminals) Meeting #24 ***TP-040099***
Seoul, Korea
2 - 4 June, 2004

Agenda Item: 5.3.3
Source: T3
Title: CRs to TS 11.10-4
Document for: approval

This document contains the following change requests that are approved by 3GPP TSG T3 and forwarded to 3GPP TSG T#24 for approval:

Doc-2nd-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	WI
T3-040331	11.10-4	A066		R99	Essential corrections	F	8.7.0	8.8.0	TEI
T3-040332	11.10-4	A067		R99	Support of GSM 700, GSM 850 and PCS 1900	F	8.7.0	8.8.0	TEI
T3-040333	11.10-4	A068		R99	Corrections of applicability table	F	8.7.0	8.8.0	TEI
T3-040334	11.10-4	A069		R99	Essential corrections to Call Control test cases	F	8.7.0	8.8.0	TEI
T3-040335	11.10-4	A070		R99	Correction on allowing optional parameters in ENVELOPE(CALL CONTROL) command for call set-ups when testing Call Control procedures	F	8.7.0	8.8.0	TEI
T3-040336	11.10-4	A071		R99	Correction of Cell Broadcast message download test	F	8.7.0	8.8.0	TEI

3GPP TSG-T3 Meeting #31
Berlin, Germany, 27.-30.04.2004

Tdoc ⌘T3-040331
(revised T3-040209)

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A066** ⌘**rev** **-** ⌘ Current version: **8.7.0** ⌘

*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:*** ⌘	29/04/2004
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) 27.22.4.3.1.4.2 Get Input: In expected seq. 1.9 the user shall enter an empty input. Only one coding for the text string TLV in the Terminal Response of this test is allowed, but 3GPP TS 11.14, cl. 6.8 (Structure of Terminal Response) states: „Text string: [..] When the ME issues a successful TERMINAL RESPONSE ('0X' result value - refer to subclause 12.12) for a GET INPUT command to which the user has made an empty input (i.e. if the user does not enter any character), the ME shall indicate this by means of either a null text string (see subclause 12.15 for the coding of this object), or by means of a Text string object with Length = '01', and a Value part consisting of a data coding scheme only."

b) 27.22.4.12.1.4.2 Send USSD: Incorrect DCS coding in RELEASE COMPLETE (SS RETURN RESULT) 1.2 and RELEASE COMPLETE (SS RETURN RESULT) 1.3

c) 27.22.4.15.4.2 Provide Local Information: Incorrect coding of BCCH Channel list TLV in TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1 (10 ARFCNs and necessary spare bits require only 13 bytes)

d) 27.22.4.23.1.4.2 and 27.22.4.23.2.4.2: Incorrect coding of AT command TLV data string. Alpha Identifier missing in PROACTIVE COMMAND: RUN AT COMMAND 2.1.1 and PROACTIVE COMMAND: RUN AT COMMAND 2.2.1. Icon test should be performed like icon test for various other proactive commands in 3GPP TS 11.10-4.

e) 27.22.4.27.2.4.2: Incorrect coding of PROACTIVE SIM COMMAND: OPEN CHANNEL 2.7.1

f) 27.22.7.6.1.4.2 Event Download (Idle Screen Avalibale): Source Device in EVENT DOWNLOAD - IDLE SCREEN AVAILABLE 1.1.1 shall be “Display”.

g) 27.22.8.4.2 MO SM control by SIM: The text string, which the user has to enter in expected sequences 1.2, 1.4, 1.6, 1.8 and 1.9 shall be corrected.

Summary of change: ⌘

a) 27.22.4.3.1.4.2 Get Input: In expected seq. 1.9: Second Terminal Response inserted to align the test with the core specification.

b) 27.22.4.12.1.4.2 Send USSD: Incorrect DCS coding in RELEASE COMPLETE (SS RETURN RESULT) 1.2 and RELEASE COMPLETE (SS RETURN RESULT) 1.3 corrected

c) 27.22.4.15.4.2 Provide Local Information: Coding of BCCH Channel list TLV in TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1 corrected

d) 27.22.4.23.1.4.2 and 27.22.4.23.2.4.2: Various codings correct, alpha identifiers inserted and expected sequences for icon tests adjusted.

e) 27.22.4.27.2.4.2: Coding of PROACTIVE SIM COMMAND: OPEN CHANNEL 2.7.1 corrected

f) 27.22.7.6.1.4.2 Event Download (Idle Screen Avalibale): Source Device in EVENT DOWNLOAD - IDLE SCREEN AVAILABLE 1.1.1 corrected

g) 27.22.8.4.2 MO SM control by SIM: Text string, which the user has to enter in expected sequences 1.2, 1.4, 1.6, 1.8 and 1.9 corrected

Consequences if not approved: ⌘

a) 27.22.4.3.1.4.2: MEs using the null data object Text String TLV coding will fail this test though they’re compliant to the core spec.

b) 27.22.4.12.1.4.2 Send USSD: Incorrect DCS coding in RELEASE COMPLETE (SS RETURN RESULT) 1.2 and RELEASE COMPLETE (SS RETURN RESULT) 1.3 will lead to usage of DCS coding with reserved coding groups in the corresponding terminal responses and therefore failed tests.

c) 27.22.4.15.4.2 Provide Local Information, Seq. 1.3 : MEs will fail the test

d) 27.22.4.23.1.4.2 and 27.22.4.23.2.4.2: Some test can’t be performed, because the coding is incorrect.

e) 27.22.4.27.2.4.2: MEs will display different alpha identifier.

f) MEs will fail the test defined in 27.22.7.6.1.4.2

g) 27.22.8.4.2 MO SM control by SIM: MEs will fail tests due to incorrect SMS TPDU user data text string

Clauses affected: ⌘ 27.22.4.3.1.4.2, 27.22.4.15.4.2 , 27.22.7.6.1.4.2, 27.22.4.23.1.4.2, 27.22.4.23.2.4.2, 27.22.4.27.2.4.2, 27.22.8.4.2

	Y	N		
Other specs affected: ⌘		X	Other core specifications	⌘
		X	Test specifications	

	X	O&M Specifications	

Other comments: ⌘

27.22.4.3.1.4.2 Procedure

[..]

Expected Sequence 1.9 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: GET INPUT 1.9.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: GET INPUT 1.9.1	[digits only, SMS default alphabet, ME to echo text, packing not required, no help information available]
4	ME → USER	Display "<SEND>"	Range of expected length is 0-1 Text string coding in unpacked format
5	USER → ME	Completion	
6	ME → SIM	TERMINAL RESPONSE: GET INPUT 1.9.1A Or TERMINAL RESPONSE: GET INPUT 1.9.1B	[command performed successfully]

PROACTIVE COMMAND: GET INPUT 1.9.1

Logically:

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

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

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

Response length
- Minimum length: 0
- Maximum length: 1

Coding:

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

TERMINAL RESPONSE: GET INPUT 1.9.1A

Logically:

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

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

Result

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

Coding:

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

TERMINAL RESPONSE: GET INPUT 1.9.1B

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
Contents: Null data object

Coding:

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

27.22.4.12.1.4.2 Procedure

[..]

Expected Sequence 1.2 (SEND USSD, 8-bit data, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 1.2.1	
4	ME → USER	Display "8-bit USSD"	
5	ME → SS	REGISTER 1.2	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.2	["USSD string received from SS"]
7	ME → SIM	TERMINAL RESPONSE: SEND SS 1.2.1	

PROACTIVE COMMAND: SEND USSD 1.2.1

Logically:

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

Source device: SIM
Destination device: Network
Alpha identifier: "8-bit USSD"
USSD String
Data coding scheme: Uncompressed, no message class meaning, 8-bit data
USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV:	D0	58	81	03	01	12	00	82	02	81	83	85
	0A	38	2D	62	69	74	20	55	53	53	44	8A
	41	44	41	42	43	44	45	46	47	48	49	4A
	4B	4C	4D	4E	4F	50	51	52	53	54	55	56
	57	58	59	5A	2D	61	62	63	64	65	66	67
	68	69	6A	6B	6C	6D	6E	6F	70	71	72	73
	74	75	76	77	78	79	7A	2D	31	32	33	34
	35	36	37	38	39	30						

REGISTER 1.2

Logically (only USSD argument):

ProcessUnstructuredSS-Request ARGUMENT
USSD-DataCodingScheme:
- Uncompressed, no message class meaning, 8-bit data
USSD string:
- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

BER-TLV	30	45	04	01	44	04	40	41	42	43	44	45
	46	47	48	49	4A	4B	4C	4D	4E	4F	50	51
	52	53	54	55	56	57	58	59	5A	2D	61	62
	63	64	65	66	67	68	69	6A	6B	6C	6D	6E
	6F	70	71	72	73	74	75	76	77	78	79	7A
	2D	31	32	33	34	35	36	37	38	39	30	

RELEASE COMPLETE (SS RETURN RESULT) 1.2

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
USSD-DataCodingScheme:
- Uncompressed, no message class meaning, 8-bit data
USSD string:
- "USSD string received from SS"

Coding:

BER-TLV	30	21	04	01	404	04	1C	55	53	53	44	20
	73	74	72	69	6E	67	20	72	65	63	65	69
	76	65	64	20	66	72	6F	6D	20	53	53	

TERMINAL RESPONSE: SEND USSD 1.2.1

Logically:

Command details
Command number: 1
Command type: SEND USSD

Command qualifier: "00"
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
Text String
Data coding scheme: Uncompressed, no message class meaning, 8-bit data
String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	1D	04	55	53	53	44	20	73	74
	72	69	6E	67	20	72	65	63	65	69	76
	65	64	20	66	72	6F	6D	20	53	53	

Expected Sequence 1.3 (SEND USSD, UCS2 data, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SEND USSD 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SEND USSD 1.3.1	
4	ME → USER	Display "UCS2 USSD"	
5	ME → SS	REGISTER 1.3	
6	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 1.3	["USSD string received from SS"]
7	ME → SIM	TERMINAL RESPONSE: SEND SS 1.3.1	

PROACTIVE COMMAND: SEND USSD 1.3.1

Logically:

Command details
Command number: 1
Command type: SEND USSD
Command qualifier: "00"
Device identities
Source device: SIM
Destination device: Network
Alpha identifier: "UCS2 USSD"
USSD String
Data coding scheme: Uncompressed, no message class meaning, UCS2 (16 bit)
USSD string: "ЗДРАВСТВУЙТЕ" ("Hello" in Russian)

Coding:

BER-TLV:	D0	2F	81	03	01	12	00	82	02	81	83	85
	09	55	43	53	32	20	55	53	53	44	8A	19
	48	04	17	04	14	04	20	04	10	04	12	04
	21	04	22	04	12	04	23	04	19	04	22	04
	15											

REGISTER 1.3

Logically (only USSD argument):

ProcessUnstructuredSS-Request ARGUMENT
USSD-DataCodingScheme:
- Uncompressed, no message class meaning, UCS2 (16 bit)

USSD string:
- "ЗДРАВСТВУЙТЕ" ("Hello" in Russian)

Coding:

BER-TLV	30	1D	04	01	48	04	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					

RELEASE COMPLETE (SS RETURN RESULT) 1.3

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT
USSD-DataCodingScheme:
- Uncompressed, no message class meaning, UCS2 (16 bit)

USSD string:
- "USSD string received from SS"

Coding:

BER-TLV	30	3D	04	01	408	04	38	00	55	00	53	00
	53	00	44	00	20	00	73	00	74	00	72	00
	69	00	6E	00	67	00	20	00	72	00	65	00
	63	00	65	00	69	00	76	00	65	00	64	00
	20	00	66	00	72	00	6F	00	6D	00	20	00
	53	00	53									

TERMINAL RESPONSE: SEND USSD 1.3.1

Logically:

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

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

Result
- General Result: Command performed successfully

Text String
- Data coding scheme: Uncompressed, no message class meaning, UCS2 (16 bit)
- String: "USSD string received from SS"

Coding:

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
	00	8D	39	08	00	55	00	53	00	53	00
	44	00	20	00	73	00	74	00	72	00	69
	00	6E	00	67	00	20	00	72	00	65	00
	63	00	65	00	69	00	76	00	65	00	64
	00	20	00	66	00	72	00	6F	00	6D	00
	20	00	53	00	53						

[..]

27.22.4.15.4.2 Procedure

[..]

Expected Sequence 1.3 (PROVIDE LOCAL INFORMATION, Network Measurement Results (NMR))

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PROVIDE LOCAL INFORMATION 1.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.3.1	
4	ME → SIM	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1	[Command performed successfully, NMR as system simulator]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.3.1

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "02" Network Measurement Results

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

Coding:

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

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1

The actual values of the measurements are not tested.

Logically:

Command details
- Command number: 1
- Command type: PROVIDE LOCAL INFORMATION
- Qualifier: "02" Network Measurement Results

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

Result
- General Result: Command performed successfully
- Network Measurement Results: RXLEV-FULL-SERVING-CELL=52, BA not used, DTX not used, as an example in the BER-TLV)
- BCCH channel list: 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585

Coding:

BER-TLV:	81	03	01	26	02	82	02	82	81	83	01	00
	96	10	34	34	00	00	00	00	00	00	00	00
	00	00	00	00	00	00	9D	0~~E~~D	8C	63	58	E2
	39	8F	63	F9	06	45	91	A4	90	~~00~~		

[..]

27.22.4.23.1.4.2 Procedure

Expected Sequence 1.1(RUN AT COMMAND, no alpha identifier presented, request IMSI)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 1.1.1	[no alpha identifier, request IMSI]
4	ME (→ User)	The ME may give information to the user concerning what is happening	
7	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 1.1.1	[Command performed successfully, AT Response containing IMSI]

PROACTIVE SIM COMMAND: RUN AT COMMAND 1.1.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

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

AT Command
- AT Command string: "AT+CIMI"

Coding:

BER-TLV:	D0	12	81	03	01	34	00	82	02	81	82	A8
	07	41	54	2B	43	49	4D	43~~3~~9				

[..]

27.22.4.23.2.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.1.1	[BASIC-ICON, self-explanatory, request IMSI]
4	ME → USER	Display BASIC ICON without the alpha identifier ~~Or~~ ~~May give information to user concerning what is happening~~	
5	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A ~~Or~~ ~~TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B~~	[Command performed successfully, AT response containing IMSI] ~~or~~ ~~[Command performed but requested icon could not be displayed, AT response containing IMSI]~~

PROACTIVE COMMAND: RUN AT COMMAND 2.1.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"
Device identities
Source device: SIM
Destination device: ME
Alpha Identifier
Alpha identifier: "Basic Icon"
AT Command
AT Command string: "AT+CIMI"
Icon identifier:
Icon qualifier: icon is self-explanatory
Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	~~16~~22	81	03	01	34	00	82	02	81	82	85~~A8~~
	0A~~07~~	42~~41~~	61~~54~~	73~~2B~~	69~~43~~	63~~49~~	20~~4D~~	49~~43~~	63~~9E~~	6F~~02~~	6E~~00~~	A8~~01~~
	07	41	54	2B	43	49	4D	49	9E	02	00	01

TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully
AT Response
AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	08	08	09	10	10	32	54	76	98		

Expected Sequence 2.1B (RUN AT COMMAND, basic icon self explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.1.1	[BASIC-ICON, self-explanatory, request IMSI]
4	ME → USER	Display "Basic Icon" without the BASIC-ICON	
5	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully, but requested icon could not be displayed
AT Response
AT Response string: IMSI

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	04
	A9	08	08	09	10	10	32	54	76	98		

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.2.1	[COLOUR-ICON, self-explanatory, request IMSI]
4	ME → USER	Display COLOUR-ICON without the alpha identifier ~~Or~~ ~~May give information to user concerning what is happening~~	
5	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A ~~Or~~ ~~TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B~~	[Command performed successfully, AT response containing IMSI] ~~or~~ ~~[Command performed but requested icon could not be displayed, AT response containing IMSI]~~

PROACTIVE COMMAND: RUN AT COMMAND 2.2.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"
Device identities
Source device: SIM
Destination device: ME
Alpha Identifier
Alpha identifier: "Colour Icon"
AT Command
AT Command string: "AT+CIMI"
Icon identifier:
Icon qualifier: icon is self-explanatory
Icon identifier: record 2 in $EF_{(IMG)}$

Coding:

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

Expected Sequence 2.2B (RUN AT COMMAND, colour icon self explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.2.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.2.1	[COLOUR-ICON, self-explanatory, request IMSI]
4	ME → USER	Display “Colour Icon” without the COLOUR-ICON	
5	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

Expected Sequence 2.3A (RUN AT COMMAND, basic icon non self-explanatory, request IMSI, successful)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.3.1	[BASIC-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Basic Icon" and BASIC-ICON ~~Or~~ ~~Display "Basic Icon"~~	
7	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A ~~Or~~ ~~TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B~~	[Command performed successfully, AT response containing IMSI] ~~or~~ ~~[Command performed but requested icon could not be displayed, AT response containing IMSI]~~

PROACTIVE COMMAND: RUN AT COMMAND 2.3.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

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

Alpha Identifier
- Alpha identifier: "Basic Icon"

AT Command
- AT Command string: "AT+CIMI"

Icon identifier
- Icon qualifier: icon is non self-explanatory

Icon identifier: record 1 in $EF_{(IMG)}$

Coding:

BER-TLV:	D0	22	81	03	01	34	00	82	02	81	82	85
	0A	42	61	73	69	63	20	49	63	6F	6~~D~~E	A8
	07	41	54	2B	43	49	4D	4~~3~~9	9E	02	01	01

Expected Sequence 2.3B (RUN AT COMMAND, basic icon non self-explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.3.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.3.1	[BASIC-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Basic Icon" without BASIC-ICON	
7	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.4.1	[COLOUR-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Colour Icon" and COLOUR-ICON ~~Or~~ ~~Display "Colour Icon"~~	
5	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A ~~Or~~ ~~TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B~~	[Command performed successfully, AT response containing IMSI] ~~or~~ ~~[Command performed but requested icon could not be displayed, AT response containing IMSI]~~

PROACTIVE COMMAND: RUN AT COMMAND 2.4.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

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

Alpha Identifier
- ~~———————~~Alpha identifier: "Colour Icon"

AT Command
- AT Command string: "AT+CIMI"

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

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

Coding:

BER-TLV:	D0	23	81	03	01	34	00	82	02	81	82	85
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6DE
	A8	07	41	54	2B	43	49	4D	4349	9E	02	01
	02											

Expected Sequence 2.4B (RUN AT COMMAND, colour icon non self-explanatory, request IMSI, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND 2.4.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.4.1	[COLOUR-ICON, non self-explanatory, request IMSI]
4	ME → USER	Display "Colour Icon" without COLOUR-ICON	
5	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B	[Command performed but requested icon could not be displayed, AT response containing IMSI]

Expected Sequence 2.5 (RUN AT COMMAND, basic icon non self-explanatory, no alpha identifier presented)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: RUN AT COMMAND SS 2.5.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: RUN AT COMMAND 2.5.1	[BASIC-ICON, non self-explanatory]
4	ME → SIM	TERMINAL RESPONSE: RUN AT COMMAND 2.5.1	[Command data not understood by ME]

PROACTIVE COMMAND: RUN AT COMMAND 2.5.1

Logically:

Command details
- Command number: 1
- Command type: RUN AT COMMAND
- Command qualifier: "00"

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

AT Command
- AT Command string: "AT+CIMI"

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

Coding:

BER-TLV:	D0	16	81	03	01	34	00	82	02	81	82	A8
	07	41	54	2B	43	49	4D	439	9E	02	01	01

TERMINAL RESPONSE: RUN AT COMMAND 2.5.1

Logically:

Command details
Command number: 1
Command type: RUN AT COMMAND
Command qualifier: "00"
Device identities
Source device: SIM
Destination device: ME
Result
General Result: Command data not understood by ME

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	32

27.22.4.27.2.4.2 Procedure

[..]

Expected Sequence 2.7 (OPEN CHANNEL, immediate link establishment, GPRS, open command with alpha identifier, User did not accept the proactive command)

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND : OPEN CHANNEL 2.7.1	
4	ME → user	Confirmation phase with alpha ID	
5	user → ME	The user rejects	
6	ME → SIM	TERMINAL RESPONSE : OPEN CHANNEL 2.6.1	[User did not accept the proactive command]

PROACTIVE COMMAND: OPEN CHANNEL 2.7.1

Logically:

Command details
Command number: 1
Command type: OPEN CHANNEL
Command qualifier: immediate link establishment
Device identities
Source device: SIM
Destination device: ME
Alpha Identifier Open ID
Bearer
Bearer type: GPRS
Bearer parameter:
Precedence Class: 02
Delay Class: 04
Reliability Class: 05
Peak throughput class: 05
Mean throughput class: 16
Packet data protocol: 02 (IP)
Buffer
Buffer size: 1400

Text String: UserLog (User login)
Text String: UserPwd (User password)
SIM/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01
Coding:

BER-TLV:	D0	3F	81	03	01	40	01	82	02	81	82	05
	07	4~~6~~F	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							

[..]

27.22.7.6.1.4.2 Procedure

Expected Sequence 1.1 (EVENT DOWNLOAD - IDLE SCREEN AVAILABLE)

Step	Direction	MESSAGE / Action	Comments
1	USER → ME	Select screen other than the ME idle screen	
2	SIM → ME	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	[set up event list: idle screen available]
3	ME → SIM	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[command performed successfully]
4	USER → ME	Select ME idle screen	
5	ME → SIM	ENVELOPE: IDLE SCREEN AVAILABLE 1.1.1	
6	USER → ME	Select ME idle screen	check if no envelope Event Download- idle screen sending to the SIM (this event is reported once)

[..]

EVENT DOWNLOAD - IDLE SCREEN AVAILABLE 1.1.1

Logically:

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

Coding:

BER-TLV:	D6	07	19	01	05	82	02	~~8~~02	81

27.22.8.4.2 Procedure

[..]

SMS-PP (SEND SHORT MESSAGE) Message 1.1

Logically:

SMS TPDU

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

Coding:

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

[..]

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

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

[..]

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

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

[..]

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

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

[..]

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

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

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

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

3GPP TSG-T3 Meeting #31
Berlin, Germany, 27.-30.04.2004

Tdoc ⌘T3-040332
(revised T3-040229)

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A067** ⌘**rev** **-** ⌘ Current version: **8.7.0** ⌘

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

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

Title:	⌘	CR 11.10-4 R99: Support of GSM 700, GSM 850 and PCS 1900
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	29/04/2004
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:	⌘	3GPP TS 11.10-4 R99 does not reflect the full scope mentioned in clause 1 of that document, because no settings are available to allow tests in frequency bands or areas where 3 digit MNCs are required.
Summary of change:	⌘	Affected test cases enhanced to be able to cover the full scope of 3GPP TS 11.10-4. Incorrect numbering in 27.22.6.3 and 27.22.6.4 corrected.
Consequences if not approved:	⌘	No tests for frequency bands or areas where 3 digit MNCs are required will be available and therefore the scope of 3GPP TS 11.10-4 will not be completly covered.

Clauses affected:	⌘	27, 27.22.4.15.4, 27.22.6.1.4, 27.22.6.2.4, 27.22.6.3, 27.22.6.4, 27.22.7.4, 27.22.8

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

Other comments:	⌘	

1 Scope

The present document describes the technical characteristics and methods of test for testing the SIM Application Toolkit implemented in Mobile Stations (MS) for the Pan European digital cellular communications system and Personal Communication Systems (PCS) operating in the 450 MHz, 480 MHz, 700 MHz, 750 MHz, 850 MHz, 900 MHz, 1 800 MHz and 1 900 MHz frequency band (GSM 400, GSM 700, GSM 750, GSM 850, GSM 900, DCS 1 800 and PCS 1 900) within the European digital cellular telecommunications system, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [19] and ETS 300 406 [20].

The present document is valid for MS implemented according to GSM Phase2+ R96, or R97, or R98, or R99.

The present document covers the minimum characteristics considered necessary in order to provide sufficient performance for mobile equipment and to prevent interference to other services or to other users, and to the PLMNs.

It does not necessarily include all the characteristics which may be required by a user or subscriber, nor does it necessarily represent the optimum performance achievable.

The present document is part of the GSM-series of technical specifications. The present document neither replaces any of the other GSM technical specifications or GSM related ETSs or ENs, nor is it created to provide full understanding of (or parts of) the GSM 400, GSM 700, GSM 850, GSM 900, DCS1800 and PCS1900 systems . The present document lists the requirements, and provides the methods of test for testing the SIM Application Toolkit implemented in a MS for conformance to the GSM standard.

For a full description of the system, reference should be made to all the GSM technical specifications or GSM related ETSs or ENs. Clause 2 provides a complete list of the GSM technical specifications, GSM related ETSs, ENs, and ETRs, on which this conformance test specifications is based.

If there is a difference between this present conformance document, and any other GSM technical specification or GSM related ETS or EN, or 3GPP TS, then the other GSM technical specification or GSM related ETS or EN or 3GPP TS shall prevail.

27 Testing of the SIM/ME interface

This clause is an addition to 3GPP TS 51.010-1 [12] clause 27 to confirm the correct interpretation of the SIM Application Toolkit commands and the correct operation of the Toolkit facilities.

The definitions, declarations and default values specified in 3GPP TS 51.010-1 [12] clause 27 shall apply, unless otherwise specified in the present clause.

NOTE: As defined in 3GPP TS 51.010-1 [12] clause 27 the term PCS 1900 defines the tests applicable for GSM 700, GSM 850 and PCS 1900 MS.

A SIM Simulator with the appropriate SIM Application Toolkit functionality will be required. The SIM data defined below shall be used for all test cases unless otherwise specified within the test case.

The comprehension required flags in SIMPLE-TLV objects that are included in a TERMINAL RESPONSE or an ENVELOPE shall be set as described in TS 11.14 [15]. This means that in cases where it is up to the ME to decide if this flag is used or not, the corresponding Tag coding in the TERMINAL RESPONSEs and ENVELOPEs in this document represents only one of the two valid possibilities.

27.22.4.15 PROVIDE LOCAL INFORMATION

[..]

27.22.4.15.4 Method of tests

27.22.4.15.4.1 Initial conditions

The ME is connected to the SIM Simulator.

The ME is connected to the System Simulator and has performed the location update procedure.

The GSM parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;
- Timing advance = 0;
- ~~Frequency parameters: DCS 1800,~~ N~~n~~eighbour allocations = 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;
- Timing advance = 0;
- Neighbour allocations = 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585.

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

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

27.22.4.15.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PROVIDE LOCAL INFORMATION 1.1.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1	

4	ME → SIM	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1A or TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1B	[Command performed successfully, MCC MNC LAC and Cell Identity as system simulator, option A shall apply for GSM parameters] [Command performed successfully, MCC MNC LAC and Cell Identity as system simulator, option B shall apply for PCS1900 parameters]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1

Logically:

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

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

Coding:

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

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1A

Logically:

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

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

Result
- General Result: Command performed successfully

Location Information
- MCC & MNC: MCC = 001, MNC = 01
- Location Area Code: 0001
- Cell Identity Value: 0001

Coding:

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

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1B

Logically:

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

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

Result
- General Result: Command performed successfully

Location Information
MCC & MNC: MCC = 001, MNC = 011
Location Area Code: 0001
Cell Identity Value: 0001

Coding:

BER-TLV:	81	03	01	26	00	82	02	82	81	83	01	00
	93	07	00	11	10	00	01	00	01			

[..]

27.22.6 CALL CONTROL BY SIM

27.22.6.1 Procedure for Mobile Originated calls

[..]

27.22.6.1.4 Method of tests

27.22.6.1.4.1 Initial conditions

The ME is connected to the SIM Simulator and System Simulator and has performed the location update procedure.

The GSM parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The elementary files are coded as SIM Application Toolkit default.

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

The call control service is allocated and activated in the SIM Service Table.

27.22.6.1.4.2 Procedure

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

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.1.1A or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	90 00	
4	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"

ENVELOPE CALL CONTROL 1.1.1A

Logically:

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

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

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

Coding:

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

ENVELOPE CALL CONTROL 1.1.1B

Logically:

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

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

Location Information
- MCC & MNC the mobile country and network code (001110)
- LAC the location Area Code (0001)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	1A	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	13	07	00	11	10
	00	01	00	01								

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

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.2.1A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
6	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]

ENVELOPE CALL CONTROL 1.2.1A

Logically:

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

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

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

Coding:

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

ENVELOPE CALL CONTROL 1.2.1B

Logically:

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

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

Location Information
- MCC & MNC the mobile country and network code (001110)
- LAC the location Area Code (0001)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	1A	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	13	07	00	11	10
	00	01	00	01								

CALL CONTROL RESULT 1.2.1

Logically:

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

Coding:

BER-TLV:	00	00

Expected Sequence 1.3 (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, allowed without modification)

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1 PENDING	
2	ME→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[Set up call to "+012340123456"]
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → SIM	ENVELOPE CALL CONTROL 1.3.1A or ENVELOPE CALL CONTROL 1.3.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
7	SIM → ME	9F 02	
8	ME → SIM	GET RESPONSE	
9	SIM → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
10	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]
11	ME → SS	The ME sets up the call without modification	[Set up call to "+012340123456"]

PROACTIVE COMMAND: SET UP CALL 1.3.1

Logically:

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

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

Alpha identifier: "+012340123456"

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

Coding:

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

ENVELOPE CALL CONTROL 1.3.1A

Logically:

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

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

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

Coding:

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

ENVELOPE CALL CONTROL 1.3.1B

Logically:

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

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

Location Information
- MCC & MNC the mobile country and network code (001110)
- LAC the location Area Code (0001)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	16	02	02	82	81	06	07	91	10	32
	04	21	43	65	13	07	00	11	10	00	01
	00	01									

CALL CONTROL RESULT 1.3.1

Logically:

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

Coding:

BER-TLV:	00	00

TERMINAL RESPONSE: SET UP CALL 1.3.1

Logically:

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

Coding:

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

Expected Sequence 1.4 (CALL CONTROL BY SIM , set up call attempt by user, not allowed)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.4.1A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
6	ME → SS	The ME does not set up the call	

ENVELOPE CALL CONTROL 1.4.1A

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "+01234567890123456789"
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

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

ENVELOPE CALL CONTROL 1.4.1B

Logically:

Device identities

Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "+01234567890123456789"
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	1A	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	13	07	00	11	10
	00	01	00	01								

CALL CONTROL RESULT 1.4.1

Logically:

Call control result: '01' = not Allowed

Coding:

BER-TLV:	01	00

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

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1 PENDING	
2	ME→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1	[Set up call to "+012340123456"
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → SIM	ENVELOPE CALL CONTROL 1.5.1A or ENVELOPE CALL CONTROL 1.5.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
7	SIM → ME	9F 02	
8	ME → SIM	GET RESPONSE	
9	SIM → ME	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"]
10	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.5.1	Permanent Problem - Interaction with Call Control by SIM]
11	ME → SS	The ME does not set up the call	

PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

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

Device identities
Source device: SIM
Destination device: Network
Alpha identifier: "+012340123456"
Address
TON: International
NPI: "ISDN / telephone numbering plan"
Dialling number string "012340123456"

Coding:

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

ENVELOPE CALL CONTROL 1.5.1A

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

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

ENVELOPE CALL CONTROL 1.5.1B

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	16	02	02	82	81	06	07	91	10	32
	04	21	43	65	13	07	00	11	10	00	01
	00	01									

CALL CONTROL RESULT 1.5.1

Logically:

Call control result: '01' = not Allowed

Coding:

BER-TLV:	01	00

TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

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

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

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

Coding:

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

Expected Sequence 1.6 (CALL CONTROL BY SIM , set up call attempt by user, allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.6.1A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications",]
6	ME → SS	The ME sets up the call to "+010203"	

ENVELOPE CALL CONTROL 1.6.1A

Logically:

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

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

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

Coding:

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

ENVELOPE CALL CONTROL 1.6.1B

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	1A	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	13	07	00	11	10
	00	01	00	01								

CALL CONTROL RESULT 1.6.1

Logically:

Call control result: '02' = Allowed with modifications
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "010203"

Coding:

BER-TLV:	02	06	86	04	91	10	20	30

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

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1 PENDING	
2	ME→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.7.1	[Set up call to "+012340123456"]
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → SIM	ENVELOPE CALL CONTROL 1.7.1A or ENVELOPE CALL CONTROL 1.7.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
7	SIM → ME	9F 0B	
8	ME → SIM	GET RESPONSE	
9	SIM → ME	CALL CONTROL RESULT 1.7.1	[Call control result: "Allowed with modifications"]
10	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.7.1	[command performed successfully]
11	ME → SS	The ME sets up the call to "+011111111111"	

PROACTIVE COMMAND: SET UP CALL 1.7.1

Logically:

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

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

Alpha identifier: “+012340123456"

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

Coding:

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

ENVELOPE CALL CONTROL 1.7.1A

Logically:

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

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

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

Coding:

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

ENVELOPE CALL CONTROL 1.7.1B

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	16	02	02	82	81	06	07	91	10	32
	04	21	43	65	13	07	00	11	10	00	01
	00	01									

CALL CONTROL RESULT 1.7.1

Logically:

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

Coding:

BER-TLV:	02	09	86	07	091	10	11	11	11	11	11

TERMINAL RESPONSE: SET UP CALL 1.7.1

Logically:

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

Coding:

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

Expected Sequence 1.8 (CALL CONTROL BY SIM , set up call attempt by user, allowed with modifications: emergency call)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.8.1A or ENVELOPE CALL CONTROL 1.8.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 06	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.8.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up an emergency call;	

ENVELOPE CALL CONTROL 1.8.1A

Logically:

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

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

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

Coding:

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

ENVELOPE CALL CONTROL 1.8.1B

Logically:

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

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

Location Information
- MCC & MNC the mobile country and network code (001110)
- LAC the location Area Code (0001)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	1A	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	13	07	00	11	10
	00	01	00	01								

CALL CONTROL RESULT 1.8.1

Logically:

Call control result Allowed, with modification
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Address value "112"

Coding:

BER-TLV:	02	05	86	03	81	11	F2

Expected Sequence 1.9 (CALL CONTROL BY SIM , set up call attempt by user, allowed with modifications: number in EF_{ECC})

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.9.1A or ENVELOPE CALL CONTROL 1.9.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 06	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.9.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up call with the dialled digits "1020". The ME does not set up an emergency call, but stes up a normal call	

ENVELOPE CALL CONTROL 1.9.1A

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

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

ENVELOPE CALL CONTROL 1.9.1B

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	1A	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	13	07	00	11	10
	00	01	00	01								

CALL CONTROL RESULT 1.9.1

Logically:

Call control result Allowed, with modification
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Address value "1020"

Coding:

BER-TLV:	02	05	86	03	81	01	02

Expected Sequence 1.10 (CALL CONTROL BY SIM , set up call attempt by user to an emergency call)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "112"	
2	ME → SIM	The ME does not send any ENVELOPE CALL CONTROL	
3	ME → SS	The ME sets up an emergency call	

Expected Sequence 1.11 (CALL CONTROL BY SIM , set up call through call register, the SIM responds with '90 00')

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

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.1.1A or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	90 00	

4	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
5	USER → ME	End Call.	
6	USER → ME	Recall the last dialled number	
7	ME → SIM	ENVELOPE CALL CONTROL 1.1.1 A or ENVELOPE CALL CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
8	SIM → ME	90 00	
9	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
10	USER → ME	End Call.	

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

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

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.2.1A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
6	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
7	User → ME	End the call then call the last dialled number	
8	ME → SIM	ENVELOPE CALL CONTROL 1.2.1 A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
9	SIM → ME	9F 02	[Call control result: "Allowed, no modification"]
10	ME → SIM	GET RESPONSE	
11	SIM → ME	CALL CONTROL RESULT 1.2.1	
12	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]

Expected Sequence 1.13 (CALL CONTROL BY SIM , set up call through call register, not allowed)

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers not allowed by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.4.1A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
6	ME → SS	The ME does not set up the call	
7	User → ME	The user calls the last dialled number	
8	ME → SIM	ENVELOPE CALL CONTROL 1.4.1 A or ENVELOPE CALL CONTROL 1.4.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
9	SIM → ME	9F 02	
10	ME → SIM	GET RESPONSE	
11	SIM → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
12	ME → SS	The ME does not set up the call	

Expected Sequence 1.14 (CALL CONTROL BY SIM , set up call through call register, allowed with modifications)

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

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.6.1A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call to "+010203"	
7	User → ME	Set up a call to "+01234567890123456789"	
8	ME → SIM	ENVELOPE CALL CONTROL 1.6.1 A or ENVELOPE CALL CONTROL 1.6.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
9	SIM → ME	9F 07	
10	ME → SIM	GET RESPONSE	
11	SIM → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
12	ME → SS	The ME sets up the call to "+010203"	

27.22.6.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.14.

27.22.6.2 Procedure for Supplementary (SS) Services

27.22.6.2.4 Method of tests

27.22.6.2.4.1 Initial conditions

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

The elementary files are coded as SIM Application Toolkit default.

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

The call control service is allocated and activated in the SIM Service Table.

The GSM parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

27.22.6.2.4.2 Procedure

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

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → SIM	ENVELOPE CALL CONTROL 2.1.1A or ENVELOPE CALL CONTROL 2.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	90 00	
4	ME → SS	REGISTER 2.1	[The ME sends the supplementary service operation with the information as sent to the SIM]
5	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	

ENVELOPE CALL CONTROL 2.1.1A

Logically:

Device identities
Source device: ME
Destination device: SIM
SS String
TON/NPI: "FF"
Dialling number string "*21#"
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

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

ENVELOPE CALL CONTROL 2.1.1B

Logically:

Device identities
Source device: ME
Destination device: SIM
SS String
TON/NPI: "FF"
Dialling number string "*21#"
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	11	10	00	01	00	01				

REGISTER 2.1

Logically (only SS argument):

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

Coding:

BER-TLV	30	06	04	01	21	83	01	00				

RELEASE COMPLETE (SS RETURN RESULT) 2.1

Logically (only from operation code):

ACTIVATE SS RETURN RESULT
ForwardingInfo
SS-Code

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

Coding:

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

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

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → SIM	ENVELOPE CALL CONTROL 2.2.1A or ENVELOPE CALL CONTROL 2.2.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 2.2.1	[Call control result: "Allowed without modifications"]
6	ME → SS	The ME sends the supplementary service operation with the information as sent to the SIM REGISTER 2.1	[The ME sends the supplementary service operation with the information as sent to the SIM]
7	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.1	

ENVELOPE CALL CONTROL 2.2.1A

Logically:

Device identities
Source device: ME
Destination device: SIM
SS String
TON/NPI: "FF"
Dialling number string "*21#"
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

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

ENVELOPE CALL CONTROL 2.2.1B

Logically:

Device identities
Source device: ME
Destination device: SIM
SS String
TON/NPI: "FF"
Dialling number string "*21#"
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 2.2.1

Logically:

Call control result Allowed, no modifications

Coding:

BER-TLV:	00	00

Expected Sequence 2.3 (CALL CONTROL BY SIM , send SS, not allowed)

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → SIM	ENVELOPE CALL CONTROL 2.3.1A or ENVELOPE CALL CONTROL 2.3.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 2.3.1	[Call control result: "Not Allowed"]
6	ME → SS	The ME does not send the supplementary service operation	

ENVELOPE CALL CONTROL 2.3.1A

Logically:

Device identities
Source device: ME

Destination device: SIM
SS String
TON/NPI: Unknown
Dialling number string "*21#"
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

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

ENVELOPE CALL CONTROL 2.3.1B

Logically:

Device identities
Source device: ME
Destination device: SIM
SS String
TON/NPI: Unknown
Dialling number string "*21#"
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 2.3.1

Logically:

Call control result Not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 2.4 (CALL CONTROL BY SIM , send SS, allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator).	
2	ME → SIM	ENVELOPE CALL CONTROL 2.4.1A or ENVELOPE CALL CONTROL 2.4.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 2.4.1	[Call control result: "Allowed with modifications"]
6	ME → SS	REGISTER 2.4	[The ME sends the supplementary service operation with the information as sent by the SIM]
7	SS → ME	RELEASE COMPLETE (SS RETURN RESULT) 2.4	

ENVELOPE CALL CONTROL 2.4.1A

Logically:

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

SS String
- TON/NPI: Unknown
- Dialling number string "*21#"

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

Coding:

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

ENVELOPE CALL CONTROL 2.4.1B

Logically:

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

SS String
- TON/NPI: Unknown
- Dialling number string "*21#"

Location Information
- MCC & MNC the mobile country and network code (001110)
- LAC the location Area Code (0001)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	89	03	FF	2A	B1	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 2.4.1

Logically:

Call control result Allowed, with modifications
SS String
TON/NPI "FF"
SS String "*#21#"

Coding:

BER-TLV:	02	06	89	04	FF	BA	12	FB

REGISTER 2.4

Logically (only SS argument):

INTERROGATE SS ARGUMENT
SS-Code
- Call Forwarding Unconditional

Coding:

BER-TLV	30	03	04	01	21

RELEASE COMPLETE (SS RETURN RESULT) 2.4

Logically (only from operation code):

INTERROGATE SS RESULT
Call Forwarding Unconditional
SS-Status
- state ind.: operative
- provision ind.: provisioned
- registration ind.: registered
- activation ind.: not active

Coding:

BER-TLV	80	01	06						

27.22.6.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.4.

27.22.6.3 Interaction with Fixed Dialling Number (FDN)

27.22.6.3.1 Definition and applicability

See clause 3.2.2.

27.22.6.3.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- 3GPP TS 11.14 [15] clause 9.1.4.

27.22.6.~~2~~3.4 Method of tests

27.22.6.~~2~~3.4.1 Initial conditions

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

The elementary files are coded as SIM Application Toolkit default.

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

The call control service is allocated and activated in the SIM Service Table.

Fixed Dialling Number service is enabled.

The GSM parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

27.22.6.~~2~~3.4.2 Procedure

Expected Sequence 3.1 (CALL CONTROL BY SIM , set up a call not in EF_{FDN})

Step	Direction	Message / Action	Comments
1 2	User → ME ME → SIM	The user sets up a call to "4321" The ME does not send the ENVELOPE (CALL CONTROL) command to the SIM.	
3	ME → SS	The ME does not set up the call.	

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

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "123"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.2.1A or ENVELOPE CALL CONTROL 3.2.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	90 00	
4	ME → SS	The ME sets up the call without modification	[Set up call to "123"]

ENVELOPE CALL CONTROL 3.2.1A

Logically:

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

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

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

Coding:

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

ENVELOPE CALL CONTROL 3.2.1B

Logically:

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

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

Location Information
- MCC & MNC: the mobile country and network code (001110)
- LAC: the location Area Code (0001)
- Cell ID: Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	21	F3	13
	07	00	11	10	00	01	00	01				

Expected Sequence 3.3 (CALL CONTROL BY SIM , set up a call in EF_{FDN}, Allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.3.1A or ENVELOPE CALL CONTROL 3.3.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 3.3.1	[Call control result: "Allowed without modifications"]
6	ME → SS	The ME sets up the call without modification	[Set up call to "9876"]

ENVELOPE CALL CONTROL 3.3.1A

Logically:

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

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

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

Coding:

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

ENVELOPE CALL CONTROL 3.3.1B

Logically:

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

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

Location Information
- MCC & MNC: the mobile country and network code (001110)
- LAC: the location Area Code (0001)
- Cell ID: Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	89	67	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 3.3.1

Logically:

Call control result Allowed, no modifications

Coding:

BER-TLV:	00	00

Expected Sequence 3.4 (CALL CONTROL BY SIM , set up a call in EF_{FDN} , Not Allowed)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.4.1A or ENVELOPE CALL CONTROL 3.4.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 3.4.1	[Call control result: "Not Allowed"]
6	ME → SS	The ME does not set up the call	

ENVELOPE CALL CONTROL 3.4.1A

Logically:

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

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

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

Coding:

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

ENVELOPE CALL CONTROL 3.4.1B

Logically:

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

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

Location Information
- MCC & MNC the mobile country and network code (001110)
- LAC the location Area Code (0001)
- Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	89	67	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 3.4.1

Logically:

Call control result Not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 3.5 (CALL CONTROL BY SIM , set up a call in EF_{FDN} , Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.5.1A or ENVELOPE CALL CONTROL 3.5.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 3.5.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call with data sent by the SIM	[Set up call to "3333"]

ENVELOPE CALL CONTROL 3.5.1A

Logically:

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

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

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

Coding:

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

ENVELOPE CALL CONTROL 3.5.1B

Logically:

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

Address

TON	Unknown
NPI	"ISDN / telephone numbering plan"
Dialling number string	"9876"
Location Information	
MCC & MNC	the mobile country and network code (001110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	89	67	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 3.5.1

Logically:

Call control result	Allowed with modifications
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Address value	"3333"

Coding:

BER-TLV:	02	05	86	03	81	33	33

27.22.6.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1 to 3.5.

27.22.6.4 Support of Barred Dialling Number (BDN) service

27.22.6.4.1 Definition and applicability

See clause 3.2.2.

27.22.6.4.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- 3GPP TS 11.14 [15] clause 9.1.5.

27.22.6.~~2~~4.4 Method of tests

27.22.6.~~2~~4.4.1 Initial conditions

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

The elementary files are coded as SIM Application Toolkit default.

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

The call control service is allocated and activated in the SIM Service Table.

Barred Dialling Number service is enabled.

Prior to the execution of expected sequence 4.4 the FDN service shall be enabled.

27.22.6.~~2~~4.4.2 Procedure

Expected Sequence 4.1 (CALL CONTROL BY SIM , set up a call in EF_{BDN})

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "321"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.1.1A or ENVELOPE CALL CONTROL 4.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 4.1.1	[Call control result: "Not Allowed"]
6	ME → SS	The ME does not set up the call	

ENVELOPE CALL CONTROL 4.1.1A

Logically:

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

Address
- TON: Unknown
- NPI: "ISDN / telephone numbering plan"
- Dialling number string: "321"

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

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	23	F1	13
	07	00	F1	10	00	01	00	01				

ENVELOPE CALL CONTROL 4.1.1B

Logically:

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

Address
- TON: Unknown
- NPI: "ISDN / telephone numbering plan"
- Dialling number string: "321"

Location Information
- MCC & MNC: the mobile country and network code (001110)
- LAC: the location Area Code (0001)
- Cell ID: Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	23	F1	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 4.1.1

Logically:

Call control result Not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 4.2 (CALL CONTROL BY SIM , set up a call not in EF_{BDN} , Allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "1234"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.2.1A or ENVELOPE CALL CONTROL 4.2.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 4.2.1	[Call control result: "Allowed without modifications"]
6	ME → SS	The ME sets up the call without modification	[Set up call to "1234"]

ENVELOPE CALL CONTROL 4.2.1A

Logically:

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

Address
- TON Unknown
- NPI "ISDN / telephone numbering plan"
- Dialling number string "1234"

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

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	21	43	13
	07	00	F1	10	00	01	00	01				

ENVELOPE CALL CONTROL 4.2.1B

Logically:

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

Address
- TON Unknown
- NPI "ISDN / telephone numbering plan"
- Dialling number string "1234"

Location Information
- MCC & MNC the mobile country and network code (001110)

LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	21	43	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 4.2.1

Logically:

Call control result Allowed, no modifications

Coding:

BER-TLV:	00	00

Expected Sequence 4.3 (CALL CONTROL BY SIM , set up a call not in EF_{BDN} , Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "1111"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.3.1A or ENVELOPE CALL CONTROL 4.3.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 4.3.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call with data sent by the SIM	[Set up call to "2222"]

ENVELOPE CALL CONTROL 4.3.1A

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Dialling number string "~~9876~~1111"
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	11	11	13
	07	00	F1	10	00	01	00	01				

ENVELOPE CALL CONTROL 4.3.1B

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Dialling number string "1111"
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	11	11	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 4.3.1

Logically:

Call control result Allowed with modifications
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Address value "2222"

Coding:

BER-TLV:	02	05	86	03	81	22	22

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

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "123"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.4.1A	[Option A shall apply for GSM parameters]
		Or	
		ENVELOPE CALL CONTROL 4.4.1B	[Option B shall apply for PCS1900 parameters]
3	SIM → ME	9F 0A	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 4.4.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call with data sent by the SIM	[Set up call to "987654321"the ME does not re-check this modified number against the FDN list]

ENVELOPE CALL CONTROL 4.4.1A

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Dialling number string "123"
Location Information

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

Coding:

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

ENVELOPE CALL CONTROL 4.4.1B

Logically:

Device identities	
Source device:	ME
Destination device:	SIM
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Dialling number string	"123"
Location Information	
MCC & MNC	the mobile country and network code (001110)
LAC	the location Area Code (0001)
Cell ID	Cell Identity Value (0001)

Coding:

BER-TLV:	D4	12	82	02	82	81	86	03	81	21	F3	13
	07	00	11	10	00	01	00	01				

CALL CONTROL RESPONSE 4.4.1

Logically:

Call control result	Allowed with modifications
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Address value	"987654321"

Coding:

BER-TLV:	02	08	86	06	81	89	67	45	23	F1

27.22.6.4.5 Test requirement

The ME shall operate in the manner defined in expected sequences 4.1 to 4.4.

27.22.7 EVENT DOWNLOAD

27.22.7.4 Location Status Event

[..]

27.22.7.4.1.4 Method of test

27.22.7.4.1.4.1 Initial conditions

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

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

The GSM parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

Two cells are defined. Cell 1 has location area code 1 and cell 2 has location area code 2.

MS is in service on Cell 1.

27.22.7.4.4.2 Procedure

Expected Sequence 1.1(EVENT DOWNLOAD -LOCATION STATUS)

Step	Direction	Message / Action	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	SS	Cell 2 is switched on and cell 1 is switched off	
6	ME	ME performs cell reselection to cell 2	
7	ME → SS	Location Updating Request	
8	SS → ME	Location updating accept	
9	ME → SIM	ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.1A or ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters] [NOTE: The inclusion of the location information is optional: (If location status indicates normal status)]

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

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

Coding:

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

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

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

Coding:

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

EVENT DOWNLOAD - LOCATION STATUS 1.1.1A

Logically:

Event list: Location status
Device identities
Source device: ME
Destination device: SIM
Location status: normal service
Location Information
MCC & MNC the mobile country and network code (00F110)
LAC the location Area Code (0002)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D6	13	19	01	02	82	02	82	81	1B	01	00
	13	07	00	F1	10	00	02	00	01			

EVENT DOWNLOAD - LOCATION STATUS 1.1.1B

Logically:

Event list: Location status
Device identities
Source device: ME
Destination device: SIM

Location status: normal service
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0002)
Cell ID Cell Identity Value (0001)

Coding:

BER-TLV:	D6	13	19	01	02	82	02	82	81	1B	01	00
	13	07	00	11	10	00	02	00	01			

27.22.7.4.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

27.22.8 MO SHORT MESSAGE CONTROL BY SIM

[..]

27.22.8.4 Method of tests

27.22.8.4.1 Initial conditions

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

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

The MO SMS control service is enabled.

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

The GSM parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

27.22.8.4.2 Procedure

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

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A Or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
6	SIM -> ME	9F 02	
7	ME -> SIM	GET RESPONSE	
8	SIM -> ME	MO SMS CONTROL RESULT 1.1.1	[“Allowed, no modification”]
9	ME -> SS	Send SMS-PP Message 1.1	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
10	SS -> ME	SMS RP-ACK	
11	ME -> SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	

PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1

Logically:

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

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

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

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

Coding:

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

SMS-PP (SEND SHORT MESSAGE) Message 1.1

Logically:

SMS TPDU

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

Coding:

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

ENVELOPE MO SHORT MESSAGE CONTROL 1.1.1A

Logically:

Device identities

Source device:	ME
Destination device:	SIM

RP Destination Address

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

TP Destination Address

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

Location Information

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

Coding:

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

ENVELOPE MO SHORT MESSAGE CONTROL 1.1.1B

Logically:

Device identities
Source device: ME
Destination device: SIM
RP Destination Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "112233445566778"
TP Destination Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012345678"
Location Information
MCC & MNC the mobile country and network code (001110)
LAC the location Area Code (0001)
Cell ID Cell Identity Value (0001)

Coding:

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

MO SHORT MESSAGE CONTROL RESULT 1.1.1

Logically:

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

Coding:

BER-TLV:	00	00

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1

Logically:

Command details
Command number: 1
Command type: SEND SHORT MESSAGE
Command qualifier: packing not required
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully

Coding:

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

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

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data “Test Message “ and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	MO SHORT MESSAGE CONTROL RESULT 1.1.1	[“Allowed, no modification”]
6	ME -> SS	Send SMS-PP Message 1.1	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
7	SS -> ME	SMS RP-ACK	

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

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
6	SIM -> ME	9F 02	
7	ME -> SIM	GET RESPONSE	
8	SIM -> ME	MO SHORT MESSAGE CONTROL RESULT 1.3.1	[“not Allowed”]
9	ME -> SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1	[Permanent Problem - Interaction with Call Control or MO short message control by SIM]
10	ME→ SS	The ME does not send the Short Message	

MO SHORT MESSAGE CONTROL RESULT 1.3.1

Logically:

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

Coding:

BER-TLV:	01	00

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1

Logically:

Command details

Command number: 01
Command Type: SEND SHORT MESSAGE
SMS Packing Required: Yes

Device identities

Source device: ME
Destination device: SIM

Result

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

Additional information: Action not allowed

Coding:

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

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

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data “Test Message “ and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM -> ME	9F 02	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	MO SM CONTROL RESULT 1.3.1	[“Not allowed”]
6	ME → SS	The ME does not send the Short Message	

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

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	Send SMS to “+012345678”
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
6	SIM -> ME	9F XX	9F 14
7	ME -> SIM	GET RESPONSE	
8	SIM -> ME	MO SM CONTROL RESULT 1.5.1	[“Allowed with modifications”]
9	ME -> SS	Send SMS-PP Message 1.5	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.5 with the data provided by the SIM to the changed Service Center Adress “+112233445566779”]
10	SS -> ME	SMS RP-ACK	
11	ME -> SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1	

MO SHORT MESSAGE CONTROL RESULT 1.5.1

Logically:

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

RP Destination_Address of the Service Center

TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string: “112233445566779”

TP Destination Address

TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string: “012345679”

Coding:

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

SMS-PP (SEND SHORT MESSAGE) Message 1.5

Logically:

SMS TPDU

TP-MTI	SMS-SUBMIT
TP-RD	Instruct the SC to accept an SMS-SUBMIT for a SM
TP-VPF	TP-VP field not present
TP-RP	TP-Reply-Path is not set in this SMS-SUBMIT
TP-UDHI	The TP-UD field contains only the short message
TP-SRR	A status report is not requested
TP-MR	"00"
TP-DA	
TON	International number
NPI	"ISDN / telephone numbering plan"
Address value	"012345679"
TP-PID	Short message type 0
TP-DCS	
Message coding	8-bit data
Message class	class 0
TP-UDL	12
TP-UD	"Test Message"

Coding:

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1

Logically:

Command details

Command number: 01
Command Type: SEND SHORT MESSAGE
SMS Packing Required: Yes

Device identities

Source device: ME
Destination device: SIM

Result

General Result: Command performed, but modified by call control by SIM

Coding:

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

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

Step	Direction	Message / Action	Comments
1	USER -> ME	The user makes a SMS with the user data “Test Message “ and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME -> SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM -> ME	9F XX	
4	ME -> SIM	GET RESPONSE	
5	SIM -> ME	MO SM CONTROL RESULT 1.5.1	[“Allowed with modifications”]
6	ME-> SS	Send SMS-PP Message 1.5	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1. 5 with the data provided by the SIM] to the changed Service Center Adress “+112233445566779”
7	SS -> ME	SMS RP-ACK	

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

Step	Direction	Message / Action	Comments
1	SIM -> ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	ME -> SIM	FETCH	
3	SIM -> ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	Send SMS to “+012345678”
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME → SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
6	SIM → ME	90 00	
7	ME → SS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]
8	SS -> ME	SMS RP-ACK	
9	ME -> SIM	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	

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

Step	Direction	Message / Action	Comments
1	User → ME	The user makes a SMS with the user data "Test Message " and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME → SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	90 00	
4 5	ME → SS SS -> ME	Send SMS-PP SMS RP-ACK	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]

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

Step	Direction	Message / Action	Comments
1	User → ME	The user makes a SMS with the user data "Test Message " and sends it to +012345678.	[The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.1.
2	ME → SIM	ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A or ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GSM parameters] [Option B shall apply for PCS1900 parameters]
3	SIM → ME	93 00	
4	ME → SS	No action allowed	[The ME shall not send the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1or any other SM to the SS]

27.22.8.5 Test requirement

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

3GPP TSG-T3 Meeting #31
Berlin, Germany, 27.-30.04.2004

Tdoc ⌘T3-040333

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A068** ⌘**rev** **-** ⌘ Current version: **8.7.0** ⌘

*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: Corrections of applicability table
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	29/04/2004
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:	⌘	Incorrect applicability table
Summary of change:	⌘	Applicability table corrected
Consequences if not approved:	⌘	Various tests would be mandatory, though required features for these tests may not be supported by the ME

Clauses affected:	⌘	3.3, 3.4

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

Other comments:	⌘	

3.3 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
22	Mobile supporting Called Party Subaddress	O		O_CP_Subaddr

3.4 Applicability table

Table B.1: Applicability of tests

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

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

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

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

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

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
16	**SET UP CALL 27.22.4.13**								
	Call confirmed by the user and connected	R96	1.1	M	M	M	M	E.1/29	
	call rejected by the user	R96	1.2	M	M	M	M	E.1/29	
	redial	R96	1.3	C119	C119	C119	C119	E.1/29	
	putting all other calls on hold, ME busy	R96	1.4	M	M	M	M	E.1/29	
	disconnecting all other calls, ME busy	R96	1.5	M	M	M	M	E.1/29	
	only if not currently busy on another call, ME busy	R96	1.6	M	M	M	M	E.1/29	
	putting all other calls on hold, call hold is not allowed	R96	1.7	M	M	M	M	E.1/29	
	Capability configuration	R96	1.8	C101	C101	C101	C101	E.1/29	
	long dialling number string	R96	1.9	M	M	M	M	E.1/29	
	long first alpha identifier	R96	1.10	M	M	M	M	E.1/29	
	Called party subaddress	R96	1.11	~~M~~C124	~~M~~C124	~~M~~C124	~~M~~C124	E.1/29	
	maximum duration for the redial mechanism	R96	1.12	C119	C119	C119	C119	E.1/29	
	second alpha identifier	R98	2.1			M	M	E.1/29 AND E.1/63	
	UCS2 Display	R97	TBD					E.1/29 AND E.1/15	
	icons	R98	3.1,3.2, 3.3, 3.4			C108	C108	E.1/29	
17	**POLLING OFF 27.22.4.14**	**R96**	1.1	M	M	M	M	E.1/23	
18	**PROVIDE LOCAL INFO 27.22.4.15**								
	location information	R96	1.1	M	M	M	M	E.1/31	
	IMEI	R96	1.2	M	M	M	M	E.1/31	
	network measurement results and BCCH channel list	R98	1.3			M	M	E.1/32 AND E.1/67	
	Date, time and time zone	R98	1.4			M	M	E.1/59	
	language setting	R99	1.5				M	E.1/68	
	Timing advance	R99	1.6				M	E.1/69	

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

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

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

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
	UCS2 display	R98	3.1			C118	C118	E.1/61 AND E.1/15 AND E.1/39	
27	**RUN AT COMMAND 27.22.4.23**								
	No alpha Identifier	R98	1.1			C110	C110	E.1/62	
	null data alpha identifier presented	R98	1.2			C110	C110	E.1/62	
	alpha identifier presented	R98	1.3			C110	C110	E.1/62	
	icons	R98	2.1, 2.2, 2.3, 2.4, 2.5			C114	C114	E.1/62	
28	**SEND DTMF 27.22.4.24**								
	Normal	R98	1.1			M	M	E.1/66	
	alpha identifier	R98	1.2, 1.3			M	M	E.1/66	
	Mobile is not in a speech call	R98	1.4			M	M	E.1/66	
	Icons	R98	2.1, 2.2, 2.3			C108	C108	E.1/66	
	UCS2 display	R98	3.1			C118	C118	E.1/66 AND E.1/15	
29	**LANGUAGE NOTIFICATION 27.22.4.25**								
	Specific language notification	R99	1.1				M	E.1/70	
	Non specific language notification	R99	1.2				M	E.1/70	
30	**LAUNCH BROWSER 27.22.4.26**								
	No session already launched: Connect to the default URL	R99	1.1				C111	E.1/71	
	connect to the specified URL, alpha identifier length=0	R99	1.2				C111	E.1/71	
	Browser identity, no alpha identifier	R99	1.3				C111	E.1/71	
	one bearer specified and gateway/proxy identity	R99	1.4				C1~~11~~22	E.1/71	
	several bearers specified, gateway/proxy id specified	R99	1.5				C1~~11~~23	E.1/71	
	Interaction with current session	R99	2.1, 2.2, 2.3				C111	E.1/71	
	UCS2 display	R99	3.1				C117	E.1/71 AND E.1/15	
	icons	R99	4.1, 4.2				C115	E.1/71	

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
31	**OPEN CHANNEL 27.22.4.27**								
	Immediate link establishment, CSD, 9600 bps	R99	1.1, 1.2, 1.3, 1.4, 1.5, 1.6				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, 9600 bps, performed with modification	R99	1.7				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, Network currently unable to process command	R99	1.8				C113	E.1/89 AND E.1/97	
	immediate link establishment, CSD, No channel available	R99	1.9				C113	E.1/89 AND E.1/97	
	CSD, ME busy on call	R99	1.10				C113	E.1/89 AND E.1/97 AND E.1/29	
	immediate link establishment, GPRS, no local address, no alpha identifier, no network access name	R99	2.1				C121	E.1/89 AND E.1/98	
	immediate link establishment GPRS, no alpha identifier, with network access name	R99	2.2				C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, with alpha identifier	R99	2.3				C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, with null alpha identifier	R99	2.4				C121	E.1/89 AND E.1/98	
	immediate link establishment, GPRS, command performed with modifications (buffer size)	R99	2.5				C121	E.1/89 AND E.1/98	
	Void	Void	2.6				Void	Void	
	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	E.1/89	

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

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

Item	Description	Release	Test sequence (s)	Rel 96 ME	Rel 97 ME	Rel 98 ME	Rel 99 ME	Terminal Profile	Support
	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
C122	IF C111 AND A.1/21 THEN M ELSE N/A	-- O_LB_AND O_BIP_GPRS
C123	IF C111 THEN O.3 ELSE N/A	-- (O_LB_AND O_BIP_GPRS AND O_BIP_CSD) OR (O_LB_AND O_BIP_CSD)
C124	IF A.1/22, test x.A M ELSE x.B M (where x is the expected sequence number value)	-- O_CP_Subaddr
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)	
O.3	IF (A.1/21 AND A.1/12) tests (x.A AND x.C) M ELSE IF A.1/12 test x.1B M (where x is the expected sequence number value)	

27.22.4.13.1.4.2 Procedure

[..]

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.11.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.11.1	[set up a call with called party subaddress]
4	ME → USER	ME displays "Called party" during the 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" with the called party subaddress information	
7	SS → ME	The ME receives the CONNECT message from the system simulator.	
8	ME → SIM	TERMINAL RESPONSE 1.11.1A	[Command performed successfully]
9	USER → ME	The user ends the call The ME returns in idle mode.	

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

Step	Direction	MESSAGE / Action	Comments
1	SIM → ME	PROACTIVE COMMAND PENDING: SET UP CALL 1.11.1	
2	ME → SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.11.1	[set up a call with called party subaddress]
4	ME → SIM	TERMINAL RESPONSE 1.11.1B	[beyond ME's capabilities]

27.22.4.26.1.4.2 Procedure

[..]

Expected Sequence 1.4 (LAUNCH BROWSER, only GPRS 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	[Command performed successfully]

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	The user verifies that the Wap session is properly established with the required bearer. Then he/she ends the navigation. The ME returns in idle mode.	

[..]

Expected Sequence 1.5A (LAUNCH BROWSER, two 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	[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 required bearer that is first in priority (GPRS). Then he/she ends the navigation. The ME returns in idle mode.	

[..]

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.	

3GPP TSG-T WG3 Meeting #31
Berlin, Germany, 27th - 30th April, 2004

Tdoc ⌘T3-040334
(revised T3-040268)

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A069** ⌘**rev** **-** ⌘ Current version: **8.7.0** ⌘

*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 corrections to Call Control test cases
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	29/04/2004
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:	⌘	To correct the test cases pertaining to the interaction of Call Control with the proactive Set Up Call command
Summary of change:	⌘	i) In Call Control Expected Sequences 1.3 and 1.7, the successful Terminal Response is currently expected to be sent to the SIM before setting up the call. In fact, the order of events has to be changed so that the successful Terminal Response is sent after rather than before the call set-up. ii) In Call Control Expected Sequences 1.3, 1.5 and 1.7 it is assumed that user confirmation occurs before the Call Control procedure. The core specification TS 11.14, however, does not mandate this order of events. Therefore, alternative sequences are introduced that feature the Call Control procedure before any user confirmation. iii) Change a incorrect coding in Call Control Result 1.7.1
Consequences if not approved:	⌘	There would be Call Control implementations in MEs that are in line with the SAT core specification, but not in line with the SAT conformance test specification.

Clauses affected:	⌘	27.22.6.1.4.2			
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.

27.22.6 CALL CONTROL BY SIM

27.22.6.1 Procedure for Mobile Originated calls

[...]

27.22.6.1.4 Method of tests

27.22.6.1.4.1 Initial conditions

[...]

27.22.6.1.4.2 Procedure

[...]

Expected Sequence 1.3 A (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, allowed without modification)

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1 PENDING	[This test applies to MEs asking for user confirmation before sending the ENVELOPE CALL CONTROL command]
2	ME→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[Set up call to "+012340123456"]
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → SIM	ENVELOPE CALL CONTROL 1.3.1	
7	SIM → ME	9F 02	
8	ME → SIM	GET RESPONSE	
9	SIM → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
~~10~~	~~ME → SIM~~	~~TERMINAL RESPONSE: SET UP CALL 1.3.1~~	~~[command performed successfully]~~
10 ~~11~~	ME → SS	The ME sets up the call without modification	[Set up call to "+012340123456"]
11	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]

Expected Sequence 1.3 B (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, allowed without modification)

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1 PENDING	[This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command]
2	ME→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[Set up call to "+012340123456"]
4	ME → SIM	ENVELOPE CALL CONTROL 1.3.1	
5	SIM → ME	9F 02	
6	ME → SIM	GET RESPONSE	
7	SIM → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
8	ME → USER	ME displays "+012340123456" during user confirmation phase.	
9	USER → ME	The user confirms the call set up	[user confirmation]
10	ME → SS	The ME sets up the call without modification	[Set up call to "+012340123456"]
11	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]

PROACTIVE COMMAND: SET UP CALL 1.3.1

Logically:

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

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

Alpha identifier: "+012340123456"

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

Coding:

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

ENVELOPE CALL CONTROL 1.3.1

Logically:

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

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

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

Coding:

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

CALL CONTROL RESULT 1.3.1

Logically:

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

Coding:

BER-TLV:	00	00

TERMINAL RESPONSE: SET UP CALL 1.3.1

Logically:

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

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

Result
- General Result: Command performed successfully

Coding:

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

[...]

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

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

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

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1 PENDING	[This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command]
2	ME→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.5.1	[Set up call to "+012340123456"
4	ME → SIM	ENVELOPE CALL CONTROL 1.5.1	
5	SIM → ME	9F 02	
6	ME → SIM	GET RESPONSE	
7	SIM → ME	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"] [No user confirmation phase because Call Control has disallowed the request]
8	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.5.1	[Permanent Problem - Interaction with Call Control by SIM]
9	ME → SS	The ME does not set up the call	

PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

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

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

Alpha identifier: "+012340123456"

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

Coding:

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

ENVELOPE CALL CONTROL 1.5.1

Logically:

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

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

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

Coding:

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

CALL CONTROL RESULT 1.5.1

Logically:

Call control result: '01' = not Allowed

Coding:

BER-TLV:	01	00

TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

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

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

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

Coding:

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

[...]

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

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

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

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

PROACTIVE COMMAND: SET UP CALL 1.7.1

Logically:

Command details
Command number: 1

Command type: SET UP CALL
Command qualifier: Only if not currently busy on another call
Device identities
Source device: SIM
Destination device: Network
Alpha identifier: “+012340123456"
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"

Coding:

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

ENVELOPE CALL CONTROL 1.7.1

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "012340123456"
Location Information
MCC & MNC the mobile country and network code (F110)
LAC the location Area Code (1)
Cell ID Cell Identity Value (0001)

Coding:

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

CALL CONTROL RESULT 1.7.1

Logically:

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

Coding:

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

TERMINAL RESPONSE: SET UP CALL 1.7.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL

Command qualifier: Only if not currently busy on another call
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully

Coding:

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

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T3-040335

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A070** ⌘ **rev** **-** ⌘ Current version: **8.7.0** ⌘

*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⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Correction on allowing optional parameters in ENVELOPE(CALL CONTROL) command for call set-ups when testing Call Control procedures
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	29/04/2004
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: ⌘ According to 3GPP TS 11.14 section 9.1.6, the ENVELOPE(CALL CONTROL) command may contain optional SIMPLE-TLV data objects for call set-ups. The current version of 11.10-4 does not allow for any optional SIMPLE-TLV data objects in the specified ENVELOPE(CALL CONTROL) commands in section 27.22.6.1, 27.22.6.3 and 27.22.6.4.

Summary of change: ⌘ All ENVELOPE(CALL CONTROL) commands in section 27.22.6.1, 27.22.6.3 and 27.22.6.4 are changed so that optional SIMPLE-TLV data objects are allowed to be present.
The following ENVELOPE(CALL CONTROL) commands are changed:
In section 27.22.6.1:
ENVELOPE CALL CONTROL 1.1.1
ENVELOPE CALL CONTROL 1.2.1
ENVELOPE CALL CONTROL 1.3.1
ENVELOPE CALL CONTROL 1.4.1
ENVELOPE CALL CONTROL 1.5.1
ENVELOPE CALL CONTROL 1.6.1
ENVELOPE CALL CONTROL 1.7.1
ENVELOPE CALL CONTROL 1.8.1
ENVELOPE CALL CONTROL 1.9.1
In section 27.22.6.3:
ENVELOPE CALL CONTROL 3.2.1
ENVELOPE CALL CONTROL 3.3.1
ENVELOPE CALL CONTROL 3.4.1
ENVELOPE CALL CONTROL 3.5.1
In section 27.22.6.4:
ENVELOPE CALL CONTROL 4.1.1

		ENVELOPE CALL CONTROL 4.2.1 ENVELOPE CALL CONTROL 4.3.1 ENVELOPE CALL CONTROL 4.4.1
Consequences if not approved:	⌘	A ME which includes one or more optional SIMPLE-TLV data objects in a ENVELOPE(CALL CONTROL) command for a call set-up will wrongfully be rejected even though this behaviour is in full conformity with the specifications in 3GPP TS 11.14 section 9.1.6

Clauses affected:	⌘	27.22.6.1, 27.22.6.3 and 27.22.6.4			
Other specs affected:	⌘	**Y**	**N**		
			X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:

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

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

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

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

27.22.6 CALL CONTROL BY SIM

27.22.6.1 Procedure for Mobile Originated calls

27.22.6.1.1 Definition and applicability

See clause 3.2.2.

27.22.6.1.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- 3GPP TS 11.14 [15] clause 9.1.1.

27.22.6.1.3 Test purpose

To verify that for all call set-up attempts , even those resulting from a SET UP CALL proactive SIM command, the ME shall first pass the call set-up details (dialled digits and associated parameters) to the SIM, using the ENVELOPE (CALL CONTROL).

To verify that if the SIM responds with '90 00', the ME shall set up the call with the dialled digits and other parameters as sent to the SIM.

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

To verify that, in the case where the initial call set-up request results from a proactive SET UP CALL, if the call control result is "not allowed" or "allowed with modifications", the ME shall inform the SIM using TERMINAL RESPONSE "interaction with call control by SIM or MO short message control by SIM, action not allowed".

To verify that it is possible for the SIM to request the ME to set up an emergency call by supplying the number "112" as the response data.

27.22.6.1.4 Method of tests

27.22.6.1.4.1 Initial conditions

The ME is connected to the SIM Simulator and System Simulator and has performed the location update procedure.

The GSM parameters of the system simulator are:

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

The elementary files are coded as SIM Application Toolkit default.

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

The call control service is allocated and activated in the SIM Service Table.

27.22.6.1.4.2 Procedure

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

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

ENVELOPE CALL CONTROL 1.1.1

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (F110)
LAC the location Area Code (1)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

Note 1:

Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

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

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

ENVELOPE CALL CONTROL 1.2.1

Logically:

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

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

Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.

Subaddress
This parameter is optional. If present, the contents shall not be checked.

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

Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

Note 1:

Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.2.1

Logically:

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

Coding:

BER-TLV:	00	00

Expected Sequence 1.3 (CALL CONTROL BY SIM , set up call attempt resulting from a set up call proactive command, allowed without modification)

Step	Direction	Message / Action	Comments
1	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1 PENDING	
2	ME→SIM	FETCH	
3	SIM → ME	PROACTIVE COMMAND: SET UP CALL 1.3.1	[Set up call to "+012340123456"]
4	ME → USER	ME displays "+012340123456" during user confirmation phase.	
5	USER → ME	The user confirms the call set up	[user confirmation]
6	ME → SIM	ENVELOPE CALL CONTROL 1.3.1	
7	SIM → ME	9F 02	
8	ME → SIM	GET RESPONSE	
9	SIM → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no modification"]
10	ME → SIM	TERMINAL RESPONSE: SET UP CALL 1.3.1	[command performed successfully]
11	ME → SS	The ME sets up the call without modification	[Set up call to "+012340123456"]

PROACTIVE COMMAND: SET UP CALL 1.3.1

Logically:

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

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

Alpha identifier: "+012340123456"

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

Coding:

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

ENVELOPE CALL CONTROL 1.3.1

Logically:

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

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

Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.

Subaddress
This parameter is optional. If present, the contents shall not be checked.

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

Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	F1	10
	00	01	00	01	Note 4						

Note 1:

Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.3.1

Logically:

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

Coding:

BER-TLV:	00	00

TERMINAL RESPONSE: SET UP CALL 1.3.1

Logically:

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

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

Result
- General Result: Command performed successfully

Coding:

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

Expected Sequence 1.4 (CALL CONTROL BY SIM , set up call attempt by user, not allowed)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.4.1	
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
6	ME → SS	The ME does not set up the call	

ENVELOPE CALL CONTROL 1.4.1

Logically:

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

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

Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.

Subaddress
This parameter is optional. If present, the contents shall not be checked.

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

Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

Note 1:

Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.4.1

Logically:

Call control result: '01' = not Allowed

Coding:

BER-TLV:	01	00

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

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

PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

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

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

Alpha identifier: "+012340123456"

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

Coding:

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

ENVELOPE CALL CONTROL 1.5.1

Logically:

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

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

Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.

Subaddress
This parameter is optional. If present, the contents shall not be checked.

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

Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	F1	10
	00	01	00	01	Note 4						

Note 1:

Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.5.1

Logically:

Call control result: '01' = not Allowed

Coding:

BER-TLV:	01	00

TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

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

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

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

Coding:

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

Expected Sequence 1.6 (CALL CONTROL BY SIM , set up call attempt by user, allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.6.1	
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications",]
6	ME → SS	The ME sets up the call to "+010203"	

ENVELOPE CALL CONTROL 1.6.1

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (F110)
LAC the location Area Code (1)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

Note 1:

Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.6.1

Logically:

Call control result: '02' = Allowed with modifications
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "010203"

Coding:

BER-TLV:	02	06	86	04	91	10	20	30

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

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

PROACTIVE COMMAND: SET UP CALL 1.7.1

Logically:

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

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

Alpha identifier: “+012340123456"

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

Coding:

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

ENVELOPE CALL CONTROL 1.7.1

Logically:

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

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

Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (F110)
LAC the location Area Code (1)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	02	02	82	81	06	07	91	10	32
	04	21	43	65	Note 2	Note 3	13	07	00	F1	10
	00	01	00	01	Note 4						

Note 1:

Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.7.1

Logically:

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

Coding:

BER-TLV:	02	09	86	07	091	10	11	11	11	11	11

TERMINAL RESPONSE: SET UP CALL 1.7.1

Logically:

Command details
Command number: 1
Command type: SET UP CALL

Command qualifier: Only if not currently busy on another call
Device identities
Source device: ME
Destination device: SIM
Result
General Result: Command performed successfully

Coding:

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

Expected Sequence 1.8 (CALL CONTROL BY SIM , set up call attempt by user, allowed with modifications: emergency call)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.8.1	
3	SIM → ME	9F 06	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.8.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up an emergency call;	

ENVELOPE CALL CONTROL 1.8.1

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (F110)
LAC the location Area Code (1)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

Note 1:

Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.8.1

Logically:

Call control result Allowed, with modification
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Address value "112"

Coding:

BER-TLV:	02	05	86	03	81	11	F2

Expected Sequence 1.9 (CALL CONTROL BY SIM , set up call attempt by user, allowed with modifications: number in EF_{ECC})

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.9.1	
3	SIM → ME	9F 06	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.9.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up call with the dialled digits "1020". The ME does not set up an emergency call, but stes up a normal call	

ENVELOPE CALL CONTROL 1.9.1

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON: International
NPI: "ISDN / telephone numbering plan" or "unknown"
Dialling number string "01234567890123456789"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information

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

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	0B	91	10	32	54
	76	98	10	32	54	76	98	Note 2	Note 3	13	07	00
	F1	10	00	01	00	01	Note 4					

Note 1:

Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESULT 1.9.1

Logically:

Call control result Allowed, with modification
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Address value "1020"

Coding:

BER-TLV:	02	05	86	03	81	01	02

Expected Sequence 1.10 (CALL CONTROL BY SIM , set up call attempt by user to an emergency call)

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "112"	
2	ME → SIM	The ME does not send any ENVELOPE CALL CONTROL	
3	ME → SS	The ME sets up an emergency call	

Expected Sequence 1.11 (CALL CONTROL BY SIM , set up call through call register, the SIM responds with '90 00')

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

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.1.1	
3	SIM → ME	90 00	
4	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
5	USER → ME	End Call.	
6	USER → ME	Recall the last dialled number	
7	ME → SIM	ENVELOPE CALL CONTROL 1.1.1	
8	SIM → ME	90 00	
9	ME → SS	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
10	USER → ME	End Call.	

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

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

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

Expected Sequence 1.13 (CALL CONTROL BY SIM , set up call through call register, not allowed)

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers not allowed by call control in its register.

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.4.1	
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
6	ME → SS	The ME does not set up the call	
7	User → ME	The user calls the last dialled number	
8	ME → SIM	ENVELOPE CALL CONTROL 1.4.1	
9	SIM → ME	9F 02	
10	ME → SIM	GET RESPONSE	
11	SIM → ME	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
12	ME → SS	The ME does not set up the call	

Expected Sequence 1.14 (CALL CONTROL BY SIM , set up call through call register, allowed with modifications)

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

Step	Direction	Message / Action	Comments
1	User → ME	Set up a call to "+01234567890123456789"	
2	ME → SIM	ENVELOPE CALL CONTROL 1.6.1	
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call to "+010203"	
7	User → ME	Set up a call to "+01234567890123456789"	
8	ME → SIM	ENVELOPE CALL CONTROL 1.6.1	
9	SIM → ME	9F 07	
10	ME → SIM	GET RESPONSE	
11	SIM → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
12	ME → SS	The ME sets up the call to "+010203"	

27.22.6.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.14.

27.22.6.2 Procedure for Supplementary (SS) Services

……

……

……

27.22.6.3 Interaction with Fixed Dialling Number (FDN)

27.22.6.3.1 Definition and applicability

See clause 3.2.2.

27.22.6.3.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- 3GPP TS 11.14 [15] clause 9.1.4.

27.22.6.2.3 Test purpose

To verify that the ME checks that the number entered through the MMI is on the FDN list.

To verify that, if the MMI input does not pass the FDN check, the call shall not be set up.

To verify that, if the MMI input does pass the FDN check, the ME shall pass the dialled digits and other parameters to the SIM, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the SIM responds with "allowed, no modification", the ME shall set up the call as proposed.

To verify that, if the SIM responds with "not allowed", the ME shall not set up the call.

To verify that, if the SIM responds with "allowed with modifications", the ME shall set up the call in accordance with the response from the SIM. If the modifications involve changing the dialled digits, the ME shall not re-check this modified number against the FDN list.

27.22.6.2.4 Method of tests

27.22.6.2.4.1 Initial conditions

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

The elementary files are coded as SIM Application Toolkit default.

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

The call control service is allocated and activated in the SIM Service Table.

Fixed Dialling Number service is enabled.

27.22.6.2.4.2 Procedure

Expected Sequence 3.1 (CALL CONTROL BY SIM , set up a call not in EF_{FDN})

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "4321"	
2	ME → SIM	The ME does not send the ENVELOPE (CALL CONTROL) command to the SIM.	
3	ME → SS	The ME does not set up the call.	

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

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

ENVELOPE CALL CONTROL 3.2.1

Logically:

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

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

Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.

Subaddress
This parameter is optional. If present, the contents shall not be checked.

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

Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

Note 1:

Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Expected Sequence 3.3 (CALL CONTROL BY SIM , set up a call in EF_{FDN}, Allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.3.1	
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 3.3.1	[Call control result: "Allowed without modifications"]
6	ME → SS	The ME sets up the call without modification	[Set up call to "9876"]

ENVELOPE CALL CONTROL 3.3.1

Logically:

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

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

Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.

Subaddress
This parameter is optional. If present, the contents shall not be checked.

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

Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

Note 1:

Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 3.3.1

Logically:

Call control result Allowed, no modifications

Coding:

BER-TLV:	00	00

Expected Sequence 3.4 (CALL CONTROL BY SIM , set up a call in EF_{FDN} , Not Allowed)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.4.1	
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 3.4.1	[Call control result: "Not Allowed"]
6	ME → SS	The ME does not set up the call	

ENVELOPE CALL CONTROL 3.4.1

Logically:

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

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

Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.

Subaddress
This parameter is optional. If present, the contents shall not be checked.

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

Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

Note 1:

Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 3.4.1

Logically:

Call control result Not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 3.5 (CALL CONTROL BY SIM , set up a call in EF_{FDN} , Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "9876"	
2	ME → SIM	ENVELOPE CALL CONTROL 3.5.1	
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 3.5.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call with data sent by the SIM	[Set up call to "3333"]

ENVELOPE CALL CONTROL 3.5.1

Logically:

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

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

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

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

Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	89	67	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

Note 1:

Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 3.5.1

Logically:

Call control result Allowed with modifications
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Address value "3333"

Coding:

BER-TLV:	02	05	86	03	81	33	33

27.22.6.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1 to 3.5.

27.22.6.4 Support of Barred Dialling Number (BDN) service

27.22.6.4.1 Definition and applicability

See clause 3.2.2.

27.22.6.4.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- 3GPP TS 11.14 [15] clause 9.1.5.

27.22.6.2.3 Test purpose

To verify that, if Barred Dialling Number service is enabled, the ME checks the number entered through the MMI against EF_{BDN}.

To verify that, if the SIM responds with "not allowed", the ME does not set up the call.

To verify that, if the SIM responds with "allowed, no modification", the ME shall set up the call (or the supplementary service operation) as proposed.

To verify that, if the SIM responds with "allowed with modifications", the ME sets up the call in accordance with the response from the SIM. If the modifications involve changing the dialled number the ME does not re-check this modified number against the FDN list when FDN is enabled.

27.22.6.2.4 Method of tests

27.22.6.2.4.1 Initial conditions

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

The elementary files are coded as SIM Application Toolkit default.

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

The call control service is allocated and activated in the SIM Service Table.

Barred Dialling Number service is enabled.

Prior to the execution of expected sequence 4.4 the FDN service shall be enabled.

27.22.6.2.4.2 Procedure

Expected Sequence 4.1 (CALL CONTROL BY SIM , set up a call in EF_{BDN})

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "321"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.1.1	
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 4.1.1	[Call control result: "Not Allowed"]
6	ME → SS	The ME does not set up the call	

ENVELOPE CALL CONTROL 4.1.1

Logically:

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

Address
- TON: Unknown
- NPI: "ISDN / telephone numbering plan"
- Dialling number string: "321"

Capability configuration parameters 1
- This parameter is optional. If present, the contents shall not be checked.

Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (F110)
LAC the location Area Code (1)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

~~BER-TLV:~~	~~D4~~	~~12~~	~~82~~	~~02~~	~~82~~	~~81~~	~~86~~	~~03~~	~~81~~	~~23~~	~~F1~~	~~13~~
	~~07~~	~~00~~	~~F1~~	~~10~~	~~00~~	~~01~~	~~00~~	~~01~~				

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	23	F1	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

Note 1:

Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 4.1.1

Logically:

Call control result Not Allowed

Coding:

BER-TLV:	01	00

Expected Sequence 4.2 (CALL CONTROL BY SIM , set up a call not in EF_{BDN} , Allowed without modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "1234"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.2.1	
3	SIM → ME	9F 02	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 4.2.1	[Call control result: "Allowed without modifications"]
6	ME → SS	The ME sets up the call without modification	[Set up call to "1234"]

ENVELOPE CALL CONTROL 4.2.1

Logically:

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

Address
- TON: Unknown
- NPI: "ISDN / telephone numbering plan"
- Dialling number string: "1234"

Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.

Subaddress
This parameter is optional. If present, the contents shall not be checked.

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

Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

~~BER-TLV:~~	~~D4~~	~~12~~	~~82~~	~~02~~	~~82~~	~~81~~	~~86~~	~~03~~	~~81~~	~~21~~	~~43~~	~~13~~
	~~07~~	~~00~~	~~F1~~	~~10~~	~~00~~	~~01~~	~~00~~	~~01~~				

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	43	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

Note 1:

Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 4.2.1

Logically:

Call control result: Allowed, no modifications

Coding:

BER-TLV:	00	00

Expected Sequence 4.3 (CALL CONTROL BY SIM , set up a call not in EF_{BDN} , Allowed with modifications)

Step	Direction	Message / Action	Comments
1	User → ME	The user sets up a call to "1111"	
2	ME → SIM	ENVELOPE CALL CONTROL 4.3.1	
3	SIM → ME	9F 07	
4	ME → SIM	GET RESPONSE	
5	SIM → ME	CALL CONTROL RESULT 4.3.1	[Call control result: "Allowed with modifications"]
6	ME → SS	The ME sets up the call with data sent by the SIM	[Set up call to "2222"]

ENVELOPE CALL CONTROL 4.3.1

Logically:

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

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

Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.

Subaddress
This parameter is optional. If present, the contents shall not be checked.

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

Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

~~BER-TLV:~~	~~D4~~	~~12~~	~~82~~	~~02~~	~~82~~	~~81~~	~~86~~	~~03~~	~~81~~	~~11~~	~~11~~	~~13~~
	~~07~~	~~00~~	~~F1~~	~~10~~	~~00~~	~~01~~	~~00~~	~~01~~				

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	11	11	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

Note 1:

Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 4.3.1

Logically:

Call control result Allowed with modifications
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Address value "2222"

Coding:

BER-TLV:	02	05	86	03	81	22	22

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

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

ENVELOPE CALL CONTROL 4.4.1

Logically:

Device identities
Source device: ME
Destination device: SIM
Address
TON Unknown
NPI "ISDN / telephone numbering plan"
Dialling number string "123"
Capability configuration parameters 1
This parameter is optional. If present, the contents shall not be checked.
Subaddress
This parameter is optional. If present, the contents shall not be checked.
Location Information
MCC & MNC the mobile country and network code (F110)
LAC the location Area Code (1)
Cell ID Cell Identity Value (0001)
Capability configuration parameters 2
This parameter is optional. If present, the contents shall not be checked.

Coding:

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

BER-TLV:	D4	Note 1	82	02	82	81	86	03	81	21	F3	Note 2
	Note 3	13	07	00	F1	10	00	01	00	01	Note 4	

Note 1:

Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2:

Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3:

Subaddress may be present at this place. If present, it may take up several octets.

Note 4:

Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

CALL CONTROL RESPONSE 4.4.1

Logically:

Call control result	Allowed with modifications
Address	
TON	Unknown
NPI	"ISDN / telephone numbering plan"
Address value	"987654321"

Coding:

BER-TLV:	02	08	86	06	81	89	67	45	23	F1

27.22.6.4.5 Test requirement

The ME shall operate in the manner defined in expected sequences 4.1 to 4.4.

3GPP TSG-T3 Meeting #31
Berlin, Germany, 27th – 30th April 2004

Tdoc ⌘T3-040336

CR-Form-v7

CHANGE REQUEST

⌘ **11.10-4** **CR** **A071** ⌘**rev** **-** ⌘ Current version: **8.7.0** ⌘

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

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

Title:	⌘	CR 11.10-4 R99: Correction of Cell Broadcast message download test
Source:	⌘	T3
Work item code:	⌘	TEI
Date:	⌘	29/04/2004
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:	⌘	3GPP TS 11.14, subclause 7.2.1 defines "If the message identifier of the incoming cell broadcast message is not found in EFCBMID, then the ME shall determine if the message should be displayed, by following the procedures in TS 23.041 [7] and TS 11.11 [20]." This means that there is no obligation for the ME to display the cell broadcast message.
Summary of change:	⌘	27.22.5.2.4.2, expected sequence 1.3 adjusted.
Consequences if not approved:	⌘	MEs not displaying the received CB message immediately would unfairly fail the test in expected sequence 1.3.

Clauses affected:	⌘	27.22.5.2.4.2

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

Other comments:	⌘	

27.22.5.2.4.2 Procedure

[..]

Expected Sequence 1.3 (SMS-CB (DATA DOWNLOAD), ME displays message)

Step	Direction	MESSAGE / Action	Comments
1	SS → ME	SMS-CB (DATA DOWNLOAD) 1.2	Message identifier '0C 0C'
2a	ME → USER	ME may displays the message	
2b	ME → SIM	ME shall not download the CB message to the SIM using ENVELOPE (SMS-CB download)	
3	USER → ME	The user shall use a MMI dependent procedure to initiate the display of the received CB message	[only if message has not been displayed in step 2a]
4	ME → USER	ME displays the message	[only if message has not been displayed in step 2a]

SMS-CB (Data Download) Message 1.2

Logically:

Message Content
- Serial Number
  - Geographical scope: Cell wide, normal display mode
  - Message code: 1
  - Update number: 1
  - Message Identifier: "0C0C"
- Data coding Scheme
  - Message Coding: 8 bit data
  - Message class: No message class
- Page Parameter
  - Total number of pages: 1
  - Page number: 1
  - Content of message: "Cell Broadcast".

Coding:

BER-TLV:	C0	11	0C	0C	F4	11	43	65	6C	6C	20	42
	72	6F	61	64	63	61	73	74	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20	20	20	20	20	20	20	20	20
	20	20	20	20								