#### 27.22.4.10 SEND SHORT MESSAGE

##### 27.22.4.10.1 SEND SHORT MESSAGE (normal)

27.22.4.10.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.1.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

27.22.4.10.1.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.1.4 Method of test

27.22.4.10.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and connected to the USS.

27.22.4.10.1.4.2 Procedure

Expected Sequence 1.1 (Void)

Expected Sequence 1.2 (Void)

Expected Sequence 1.3 (Void)

Expected Sequence 1.4 (Void)

Expected Sequence 1.5 (Void)

Expected Sequence 1.6 (Void)

Expected Sequence 1.7 (Void)

Expected Sequence 1.8 (Void)

Expected Sequence 1.9 (Send Short Message over CS/PS, UTRAN/GERAN)

In case A.1/157 is supported perform the "CS related procedure" and continue with "Generic Test Procedure 1 (SEND SHORT MESSAGE)" as defined clause 27.22.4.10.7.4.2 as "Expected Sequence 1.9" with the following parameters:

- Used Network Simulator (NWS): USS (UMTS System Simulator or System Simulator)

- CS domain is used to send and receive short messages

- ME supports UTRAN or GERAN

CS related procedure:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | The ME is switched on | ME will perform Profile Download and USIM initialisation |
| 2 | ME → NWS | ME performs CS/PS or CS registration. |  |
| 3 |  | CONTINUE WITH STEP 4 Generic Test Procedure 1 (SEND SHORT MESSAGE) in clause 27.22.4.10.7.4.2 |  |

In case A.1/157 is not supported but A.1/159 is supported perform the "PS related procedure" and continue with "Generic Test Procedure 1 (SEND SHORT MESSAGE)" as defined clause 27.22.4.10.7.4.2 as "Expected Sequence 1.9" with the following parameters:

- Used Network Simulator (NWS): USS (UMTS System Simulator or System Simulator)

- PS domain is used to send and receive short messages

- ME supports UTRAN or GERAN

PS related procedure:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | The ME is switched on | ME will perform Profile Download and USIM initialisation |
| 2 | ME → NWS | ME performs CS/PS or PS registration. |  |
| 3 |  | CONTINUE WITH STEP 4 Generic Test Procedure 1 (SEND SHORT MESSAGE) in clause 27.22.4.10.7.4.2 |  |

27.22.4.10.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.9.

##### 27.22.4.10.2 SEND SHORT MESSAGE (UCS2 display in Cyrillic)

27.22.4.10.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.2.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

Additionally, the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.10.2.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.2.4 Method of test

27.22.4.10.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.2.4.2 Procedure

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.1 | [packing not required, 16-bit data] |
| 4 | ME → USER | Display "ЗДРАВСТВУЙТЕ" | [Alpha Identifier]  "Hello" in Russian, 0x80 coding of UCS2 format |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 2.1 | Cyrillic |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.2 |  |
| 12 | ME → USER | Display "ЗДРАВСТВУЙТЕ" | [Alpha Identifier]  "Hello" in Russian, 0x81 coding of UCS2 format |
| 13 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 2.2 |  |
| 14 | USS → ME | SMS RP-ACK |  |
| 15 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |
| 16 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |
| 17 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 |  |
| 18 | ME → UICC | FETCH |  |
| 19 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3 | [UCS2 alphabet] |
| 20 | ME → USER | Display "ЗДРАВСТВУЙТЕ" | [Alpha Identifier]  "Hello" in Russian, 0x82 coding of UCS2 format |
| 21 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 2.3 |  |
| 22 | USS → ME | SMS RP-ACK |  |
| 23 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" |
| 24 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "ЗДРАВСТВУЙТЕ"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data

Message class class 0

TP-UDL 24

TP-UD "ЗДРАВСТВУЙТЕ"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 55 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 19 | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 |
|  | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 |
|  | 04 | 15 | 86 | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 |
|  | F8 | 8B | 24 | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 |
|  | 40 | 08 | 18 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 |
|  | 12 | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 |
|  | 22 | 04 | 15 |  |  |  |  |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 2.1

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 "01"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class class 0

TP-UDL 24

TP-UD "ЗДРАВСТВУЙТЕ"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 18 |
|  | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 | 04 | 21 |
|  | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 | 04 | 15 |

SMS-PP (SEND SHORT MESSAGE) Message 2.2

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "02"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class class 0

TP-UDL 24

TP-UD "ЗДРАВСТВУЙТЕ"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 02 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 18 |
|  | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 | 04 | 21 |
|  | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 | 04 | 15 |

SMS-PP (SEND SHORT MESSAGE) Message 2.3

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 "03"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class class 0

TP-UDL 24

TP-UD "ЗДРАВСТВУЙТЕ"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 03 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 18 |
|  | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 | 04 | 21 |
|  | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 | 04 | 15 |

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "ЗДРАВСТВУЙТЕ"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data

Message class class 0

TP-UDL 24

TP-UD "ЗДРАВСТВУЙТЕ"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4B | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0F | 81 | 0C | 08 | 97 | 94 | A0 | 90 | 92 | A1 | A2 | 92 |
|  | A3 | 99 | A2 | 95 | 86 | 09 | 91 | 11 | 22 | 33 | 44 | 55 |
|  | 66 | 77 | F8 | 8B | 24 | 01 | 00 | 09 | 91 | 10 | 32 | 54 |
|  | 76 | F8 | 40 | 08 | 18 | 04 | 17 | 04 | 14 | 04 | 20 | 04 |
|  | 10 | 04 | 12 | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 |
|  | 19 | 04 | 22 | 04 | 15 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "ЗДРАВСТВУЙТЕ"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data

Message class class 0

TP-UDL 24

TP-UD "ЗДРАВСТВУЙТЕ"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 82 | 0C | 04 | 10 | 87 | 84 | 90 | 80 | 82 | 91 | 92 |
|  | 82 | 93 | 89 | 92 | 85 | 86 | 09 | 91 | 11 | 22 | 33 | 44 |
|  | 55 | 66 | 77 | F8 | 8B | 24 | 01 | 00 | 09 | 91 | 10 | 32 |
|  | 54 | 76 | F8 | 40 | 08 | 18 | 04 | 17 | 04 | 14 | 04 | 20 |
|  | 04 | 10 | 04 | 12 | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 |
|  | 04 | 19 | 04 | 22 | 04 | 15 |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

##### 27.22.4.10.3 SEND SHORT MESSAGE (icon support)

27.22.4.10.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.3.2 Conformance requirement

27.22.4.10.3.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.3.4 Method of test

27.22.4.10.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as Toolkit default.

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

27.22.4.10.3.4.2 Procedure

Expected Sequence 3.1A (SEND SHORT MESSAGE, basic icon self-explanatory, packing not required, 8-bit data, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 3.1.1 | [packing not required, 8-bit data] |
| 4 | ME → USER | Displays the icon and not the alpha identifier | [basic icon self-explanatory] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 3.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1A | [Command performed successfully] |

PROACTIVE COMMAND: SEND SHORT MESSAGE 3.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "NO ICON"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 8bit-data

Message class class 0

TP-UDL 12

TP-UD "Test Message"

Icon Identifier

Icon Qualifier self-explanatory

Icon Identifier 1 (number of record in EF IMG)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 3B | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 07 | 4E | 4F | 20 | 49 | 43 | 4F | 4E | 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 | 9E | 02 | 00 |
|  | 01 |  |  |  |  |  |  |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 3.1

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "01"

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:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C |
|  | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1A

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 3.1B (SEND SHORT MESSAGE, basic icon self-explanatory, packing not required, 8-bit data, requested icon could not be displayed)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 3.1.1 | [packing not required, 8-bit data, basic icon self-explanatory]] |
| 4 | ME → USER | Displays the alpha identifier without the icon |  |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 3.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1B | [Command performed successfully, but requested icon could not be displayed] |

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1B

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

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

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |

Expected Sequence 3.2A (SEND SHORT MESSAGE, basic icon non-self-explanatory, packing not required, 8-bit data, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1 | [packing not required, 8-bit data] |
| 4 | ME → USER | display the icon and "Send SM" | [basic icon non-self-explanatory] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 3.2 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1A | [Command performed successfully] |

PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

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 8bit-data

Message class class 0

TP-UDL 12

TP-UD "Test Message"

Icon Identifier

Icon Qualifier non-self-explanatory

Icon Identifier 1 (number of record in EF IMG)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 3B | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 07 | 53 | 65 | 6E | 64 | 20 | 53 | 4D | 86 | 09 | 91 | 11 |
|  | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 18 | 01 | 00 | 09 |
|  | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C | 54 | 65 | 73 |
|  | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 | 1E | 02 | 01 |
|  | 01 |  |  |  |  |  |  |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 3.2

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "01"

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:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C |
|  | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1A

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 3.2B (SEND SHORT MESSAGE, basic icon non-self-explanatory, packing not required, 8-bit data, requested icon could not be displayed)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 3.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1 | [packing not required, 8-bit data, basic icon non-self-explanatory ] |
| 4 | ME → USER | display "Send SM" without the icon |  |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 3.2 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1B | [Command performed successfully, but requested icon could not be displayed] |

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1B

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

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

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |

27.22.4.10.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1A to 3.2B.

##### 27.22.4.10.4 SEND SHORT MESSAGE (Support of Text Attribute)

27.22.4.10.4.1 SEND SHORT MESSAGE (Support of Text Attribute – Left Alignment)

27.22.4.10.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.1.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the left alignment text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.1.4 Method of test

27.22.4.10.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.1.4.2 Procedure

Expected Sequence 4.1 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Left Alignment, packing not required, SMS default alphabet, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.1 | [packing not required, SMS default alphabet] |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with left alignment] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.1.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.2 | [packing not required, SMS default alphabet] |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/11, no alignment change will take place] |
| 12 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.2 |  |
| 13 | USS → ME | SMS RP-ACK |  |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 |  |  |  |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 4.1

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "01"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 01 | 02 | 91 | 10 | 40 | F0 | 01 | 20 |

SMS-PP (SEND SHORT MESSAGE) Message 4.2

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "02"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 02 | 02 | 91 | 10 | 40 | F0 | 01 | 20 |

SMS-PP (SEND SHORT MESSAGE) Message 4.3

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 "03"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 03 | 02 | 91 | 10 | 40 | F0 | 01 | 20 |

SMS-PP (SEND SHORT MESSAGE) Message 4.4

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "04"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 04 | 02 | 91 | 10 | 40 | F0 | 01 | 20 |

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.10.4.2 SEND SHORT MESSAGE (Support of Text Attribute – Center Alignment)

27.22.4.10.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.2.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the center alignment text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.2.4 Method of test

27.22.4.10.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.2.4.2 Procedure

Expected Sequence 4.2 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Center Alignment, packing not required, SMS default alphabet, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.1 | [packing not required, SMS default alphabet] |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with center alignment] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.2.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.2 | [packing not required, SMS default alphabet] |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted without center alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/11, no alignment change will take place] |
| 12 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.2 |  |
| 13 | USS → ME | SMS RP-ACK |  |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 01 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.10.4.3 SEND SHORT MESSAGE (Support of Text Attribute – Right Alignment)

27.22.4.10.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.3.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the right alignment text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.3.4 Method of test

27.22.4.10.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.3.4.2 Procedure

Expected Sequence 4.3 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Right Alignment, packing not required, SMS default alphabet, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.1 | [packing not required, SMS default alphabet] |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with right alignment] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.3.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.3.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.2 | [packing not required, SMS default alphabet] |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted without right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/11, no alignment change will take place] |
| 12 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.2 |  |
| 13 | USS → ME | SMS RP-ACK |  |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.3.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 02 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.3.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.10.4.4 SEND SHORT MESSAGE (Support of Text Attribute – Large Font Size)

27.22.4.10.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.4.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the large font size text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.4.4 Method of test

27.22.4.10.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.4.4.2 Procedure

Expected Sequence 4.4 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Large Font Size, packing not required, SMS default alphabet, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1 | [packing not required, SMS default alphabet] |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with large font size] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.2 | [packing not required, SMS default alphabet] |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with normal font size] |
| 12 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.2 |  |
| 13 | USS → ME | SMS RP-ACK |  |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1 | [packing not required, SMS default alphabet] |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with large font size] |
| 19 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.3 |  |
| 20 | USS → ME | SMS RP-ACK |  |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.4.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.3 | [packing not required, SMS default alphabet] |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with normal font size] |
| 26 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.3 |  |
| 27 | USS → ME | SMS RP-ACK |  |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "04" |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 04 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.10.4.5 SEND SHORT MESSAGE (Support of Text Attribute – Small Font Size)

27.22.4.10.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.5.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the small font size text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.5.4 Method of test

27.22.4.10.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.5.4.2 Procedure

Expected Sequence 4.5 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Small Font Size, packing not required, SMS default alphabet, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1 | [packing not required, SMS default alphabet] |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with small font size] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.2 | [packing not required, SMS default alphabet] |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with normal font size] |
| 12 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.2 |  |
| 13 | USS → ME | SMS RP-ACK |  |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1 | [packing not required, SMS default alphabet] |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with small font size] |
| 19 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.3 |  |
| 20 | USS → ME | SMS RP-ACK |  |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.3 | [packing not required, SMS default alphabet] |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with normal font size] |
| 26 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.4 |  |
| 27 | USS → ME | SMS RP-ACK |  |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "04" |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 08 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.10.4.6 SEND SHORT MESSAGE (Support of Text Attribute – Bold On)

27.22.4.10.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.6.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the bold text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.6.4 Method of test

27.22.4.10.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.6.4.2 Procedure

Expected Sequence 4.6 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Bold On, packing not required, SMS default alphabet, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1 | [packing not required, SMS default alphabet] |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with bold on] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.2 | [packing not required, SMS default alphabet] |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with bold off] |
| 12 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.2 |  |
| 13 | USS → ME | SMS RP-ACK |  |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1 | [packing not required, SMS default alphabet] |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with bold on] |
| 19 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.3 |  |
| 20 | USS → ME | SMS RP-ACK |  |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.6.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.3 | [packing not required, SMS default alphabet] |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with bold off] |
| 26 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.4 |  |
| 27 | USS → ME | SMS RP-ACK |  |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "04" |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 10 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.10.4.7 SEND SHORT MESSAGE (Support of Text Attribute – Italic On)

27.22.4.10.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.7.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the italic text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.7.4 Method of test

27.22.4.10.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.7.4.2 Procedure

Expected Sequence 4.7 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Italic On, packing not required, SMS default alphabet, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1 | [packing not required, SMS default alphabet] |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with italic on] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.2 | [packing not required, SMS default alphabet] |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with italic off] |
| 12 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.2 |  |
| 13 | USS → ME | SMS RP-ACK |  |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1 | [packing not required, SMS default alphabet] |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with italic on] |
| 19 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.3 |  |
| 20 | USS → ME | SMS RP-ACK |  |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.7.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.3 | [packing not required, SMS default alphabet] |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with italic off] |
| 26 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.4 |  |
| 27 | USS → ME | SMS RP-ACK |  |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "04" |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 20 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.10.4.8 SEND SHORT MESSAGE (Support of Text Attribute – Underline On)

27.22.4.10.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.8.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the underline text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.8.4 Method of test

27.22.4.10.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.8.4.2 Procedure

Expected Sequence 4.8 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Underline On, packing not required, SMS default alphabet, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1 | [packing not required, SMS default alphabet] |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with underline on] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.2 | [packing not required, SMS default alphabet] |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with underline off] |
| 12 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.2 |  |
| 13 | USS → ME | SMS RP-ACK |  |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1 | [packing not required, SMS default alphabet] |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with underline on] |
| 19 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.3 |  |
| 20 | USS → ME | SMS RP-ACK |  |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.8.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.3 | [packing not required, SMS default alphabet] |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with underline off] |
| 26 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.4 |  |
| 27 | USS → ME | SMS RP-ACK |  |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "04" |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 40 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.10.4.9 SEND SHORT MESSAGE (Support of Text Attribute – Strikethrough On)

27.22.4.10.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.9.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the strikethrough text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.9.4 Method of test

27.22.4.10.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.9.4.2 Procedure

Expected Sequence 4.9 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Strikethrough On, packing not required, SMS default alphabet, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1 | [packing not required, SMS default alphabet] |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with strikethrough on] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.2 | [packing not required, SMS default alphabet] |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with strikethrough off] |
| 12 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.2 |  |
| 13 | USS → ME | SMS RP-ACK |  |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1 | [packing not required, SMS default alphabet] |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with strikethrough on] |
| 19 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.3 |  |
| 20 | USS → ME | SMS RP-ACK |  |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.9.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.3 | [packing not required, SMS default alphabet] |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with strikethrough off] |
| 26 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.4 |  |
| 27 | USS → ME | SMS RP-ACK |  |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "04" |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 80 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.10.4.10 SEND SHORT MESSAGE (Support of Text Attribute – Foreground and Background Colour)

27.22.4.10.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.10.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31, 8.67 and clause 5.2.

27.22.4.10.4.10.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) and display the alpha identifier according to the foreground and background colour text attribute configuration as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.4.10.4 Method of test

27.22.4.10.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

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

27.22.4.10.4.10.4.2 Procedure

Expected Sequence 4.10 (SEND SHORT MESSAGE, alpha identifier with Text attribute – Foreground and Background Colour, packing not required, SMS default alphabet, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.10.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.1 | [packing not required, SMS default alphabet] |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with foreground and background colour according to text attribute configuration] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.10.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.10.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.2 | [packing not required, SMS default alphabet] |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with ME's default foreground and background colour] |
| 12 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 4.2 |  |
| 13 | USS → ME | SMS RP-ACK |  |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 4.10.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8B | 09 | 01 | 00 | 02 | 91 | 10 |
|  | 40 | F0 | 01 | 20 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.10.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

##### 27.22.4.10.5 SEND SHORT MESSAGE (UCS2 display in Chinese)

27.22.4.10.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.5.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

Additionally, the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.10.5.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.5.4 Method of test

27.22.4.10.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.5.4.2 Procedure

Expected Sequence 5.1 (SEND SHORT MESSAGE, packing not required, UCS2 (16-bit data in Chinese))

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 5.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 5.1.1 | [packing not required, 16-bit data] |
| 4 | ME → USER | Display "中一" | [Alpha Identifier]  "Middle 1" in Chinese, 0x80 coding of UCS2 format |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 5.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 5.1.2 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND SEND SHORT MESSAGE 5.1.2 |  |
| 12 | ME → USER | Display "中一" | [Alpha Identifier]  "Middle 1" in Chinese, 0x81 coding of UCS2 format |
| 13 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 5.2 |  |
| 14 | USS → ME | SMS RP-ACK |  |
| 15 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |
| 16 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |
| 17 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 5.1.3 |  |
| 18 | ME → UICC | FETCH |  |
| 19 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 5.1.3 | [UCS2 alphabet] |
| 20 | ME → USER | Display "中一" | [Alpha Identifier]  "Middle 1" in Chinese, 0x82 coding of UCS2 format |
| 21 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 5.3 |  |
| 22 | USS → ME | SMS RP-ACK |  |
| 23 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" |
| 24 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "中一"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data

Message class class 0

TP-UDL 24

TP-UD "中一"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 05 | 80 | 4E | 2D | 4E | 00 | 86 | 09 | 91 | 11 | 22 | 33 |
|  | 44 | 55 | 66 | 77 | F8 | 8B | 10 | 01 | 00 | 09 | 91 | 10 |
|  | 32 | 54 | 76 | F8 | 40 | 08 | 04 | 4E | 2D | 4E | 00 |  |

SMS-PP (SEND SHORT MESSAGE) Message 5.1

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 "01"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class class 0

TP-UDL 24

TP-UD "中一"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 01 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 04 |
|  | 4E | 2D | 4E | 00 |  |  |  |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 5.2

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "02"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class class 0

TP-UDL 24

TP-UD "中一"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 01 | 02 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 04 |
|  | 4E | 2D | 4E | 00 |  |  |  |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 5.3

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 "03"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class class 0

TP-UDL 24

TP-UD "中一"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 01 | 03 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 04 |
|  | 4E | 2D | 4E | 00 |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "中一"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data

Message class class 0

TP-UDL 24

TP-UD "中一"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 05 | 81 | 02 | 9C | AD | 80 | 86 | 09 | 91 | 11 | 22 | 33 |
|  | 44 | 55 | 66 | 77 | F8 | 8B | 10 | 01 | 00 | 09 | 91 | 10 |
|  | 32 | 54 | 76 | F8 | 40 | 08 | 04 | 4E | 2D | 4E | 00 |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "中一"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data

Message class class 0

TP-UDL 24

TP-UD "中一"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2E | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 06 | 82 | 02 | 4E | 00 | AD | 80 | 86 | 09 | 91 | 11 | 22 |
|  | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 10 | 01 | 00 | 09 | 91 |
|  | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 04 | 4E | 2D | 4E | 00 |

TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

##### 27.22.4.10.6 SEND SHORT MESSAGE (UCS2 display in Katakana)

27.22.4.10.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.6.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

Additionally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in the following technical specifications: ISO/IEC 10646 [17].

27.22.4.10.6.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (USS) as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.6.4 Method of test

27.22.4.10.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.10.6.4.2 Procedure

Expected Sequence 6.1 (SEND SHORT MESSAGE, packing not required, UCS2 (16-bit data, in Katakana))

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.1 | [packing not required, 16-bit data] |
| 4 | ME → USER | Display "80ル0" | [Characters in katakana] |
| 5 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 6.1 |  |
| 6 | USS → ME | SMS RP-ACK |  |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 8 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.2 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.2 | [packing not required, 16-bit data] |
| 12 | ME → USER | Display "81ル1" | [Characters in katakana] |
| 13 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 6.2 |  |
| 14 | USS → ME | SMS RP-ACK |  |
| 15 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |
| 16 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |
| 17 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.3 |  |
| 18 | ME → UICC | FETCH |  |
| 19 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.3 | [packing not required, 16-bit data] |
| 20 | ME → USER | Display "82ル2" | [Characters in katakana] |
| 21 | ME → USS | Send SMS-PP (SEND SHORT MESSAGE) Message 6.3 |  |
| 22 | USS → ME | SMS RP-ACK |  |
| 23 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" |
| 24 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "80ル0"

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 a SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data

Message class class 0

TP-UDL 10

TP-UD "80ル1"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 35 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 09 | 80 | 00 | 38 | 00 | 30 | 30 | EB | 00 | 30 | 86 | 09 |
|  | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 14 | 01 |
|  | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 08 | 00 |
|  | 38 | 00 | 30 | 30 | EB | 00 | 31 |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 6.1

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 "01"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class class 0

TP-UDL 10

TP-UD "80ル1"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 08 |
|  | 00 | 38 | 00 | 30 | 30 | EB | 00 | 31 |  |  |  |  |

TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "81ル1"

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 a SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data

Message class class 0

TP-UDL 10

TP-UD "80ル2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 07 | 81 | 04 | 61 | 38 | 31 | EB | 31 | 86 | 09 | 91 | 11 |
|  | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 14 | 01 | 00 | 09 |
|  | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 08 | 00 | 38 | 00 |
|  | 30 | 30 | EB | 00 | 32 |  |  |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 6.2

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "02"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class class 0

TP-UDL 10

TP-UD "80ル2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 02 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 08 |
|  | 00 | 38 | 00 | 30 | 30 | EB | 00 | 32 |  |  |  |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "82ル2"

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 a SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data

Message class class 0

TP-UDL 10

TP-UD "80ル3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 34 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 08 | 82 | 04 | 30 | A0 | 38 | 32 | CB | 32 | 86 | 09 | 91 |
|  | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 14 | 01 | 00 |
|  | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 08 | 00 | 38 |
|  | 00 | 30 | 30 | EB | 00 | 33 |  |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 6.3

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 "03"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class class 0

TP-UDL 10

TP-UD "80ル3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 03 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | 08 | 08 |
|  | 00 | 38 | 00 | 30 | 30 | EB | 00 | 33 |  |  |  |  |

27.22.4.10.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

##### 27.22.4.10.7 SEND SHORT MESSAGE (IMS)

27.22.4.10.7.1 Definition and applicability

See clause 3.2.2.

That the UE correctly implemented the role of an SMS-over-IP sender is tested in clause 18.1 of TS 34.229-1 [36].

27.22.4.10.7.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility for SMS over IP according to:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

- TS 31.103 [35].

- TS 34.229-1 [36], Annexes C.2, C.17 and C.18.

- TS 24.341 [37], clause 5.3.1.

27.22.4.10.7.3 Test purpose

1) To verify that the ME correctly formats and sends a short message via IMS to the E-USS/USS as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

2) To verify that the ME uses the default service address as indicated in EF SMSP if no service center address is available in the Send Short Message command.

3) To verify that a device of Class ND does not reject the Send Short Message command if the proactive Send Short Message command contains an alpha identifier.

27.22.4.10.7.4 Method of test

27.22.4.10.7.4.1 Initial conditions

The ME is connected to the USIM Simulator. The elementary files are coded as defined for the E-UTRAN/EPC ISIM-UICC in clause 27.22.2C.

For sequence 7.1 the ME is additionally connected to the E-USS.

For sequence 7.2 the ME is additionally connected to the USS.

27.22.4.10.7.4.2 Procedure

Expected Sequence 7.1 (SEND SHORT MESSAGE, SMS-over-IP, E-UTRAN)

Perform the "IMS related procedure 1" and continue with "Generic Test Procedure 1 (SEND SHORT MESSAGE)" as defined in this clause as "Expected Sequence 7.1" with the following parameters:

- Used Network Simulator (NWS): E-USS

- SMS-over-IP is used to send and receive short messages

- ME supports eFDD or eTDD and SMS-over-IP

Expected Sequence 7.2 (SEND SHORT MESSAGE, SMS-over-IP, UTRAN)

Perform the "IMS related procedure 1" and continue with "Generic Test Procedure 1 (SEND SHORT MESSAGE)" as defined in this clause as "Expected Sequence 7.2" with the following parameters:

* Used Network Simulator (NWS): USS (UMTS System Simulator only)
* SMS-over-IP is used to send and receive short messages
* ME supports UTRAN and SMS-over-IP

IMS related procedure 1:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | The ME is switched on | ME will perform Profle Download, USIM and ISIM initialisation |
| 2 | ME → NWS | ME activates the required bearer, discoveres P-CSCF and registers with the values from the ISIM to IMS services | For E-UTRAN:  The EPS bearer context activation according to the procedures defined in TS 34.229-1 [36], Annex C.2 and C.18 is performed  For UTRAN:  For SMS-over-IP a PDP context activation according to the procedures defined in TS 34.229-1 [36], Annex C.2 and C.17 is performed. |
| 3 |  | CONTINUE WITH STEP 4 Generic Test Procedure 1 (SEND SHORT MESSAGE) |  |

Generic Test Procedure 1 (SEND SHORT MESSAGE)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 4 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 7.1.1 |  |
| 5 | ME → UICC | FETCH |  |
| 6 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.1 | [packing not required, SMS default alphabet] |
| 7 | ME → NWS | Send RP-DATA containing SMS-PP (SEND SHORT MESSAGE) Message 7.1 | See Note 1.  In case of SMS-over-IP the RP-Destination Address (SM Service Center Address within the RP-DATA) is taken from the ISIM (EF SMSP) |
| 8 | NWS → ME | RP-ACK | See Note 2. |
| 9 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 7.1.1 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01" |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 7.1. 2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.2 | [packing required, 8 bit data] |
| 13 | ME → USER | Display "The address data object holds the RP\_Destination\_Address " | [Alpha Identifier not to be displayed by Terminals of Class\_ND] |
| 14 | ME → NWS | Send RP-DATA containing SMS-PP (SEND SHORT MESSAGE) Message 7.2 | See Note 1. |
| 15 | NWS → ME | RP-ACK | See Note 2. |
| 16 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 7.1.2 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02" |
| 17 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 7.1.3 |  |
| 18 | ME → UICC | FETCH |  |
| 19 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.3 | [packing not required, SMS default alphabet] |
| 20 | ME → USER | Display "The address data object holds the RP Destination Address " | [Alpha Identifier not to be displayed by Terminals of Class\_ND] |
| 21 | ME → NWS | Send RP-DATA containing SMS-PP (SEND SHORT MESSAGE) Message 7.3 | See Note 1. |
| 22 | NWS → ME | RP-ACK | See Note 2. |
| 23 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 7.1.3 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" |
| 24 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 7.1.4 |  |
| 25 | ME → UICC | FETCH |  |
| 26 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.4 | [packing not required, 8-bit data] |
| 27 | ME | No information to user | [Alpha identifier length '00'] |
| 28 | ME → NWS | Send RP-DATA containing SMS-PP (SEND SHORT MESSAGE) Message 7.4 | See Note 1. |
| 29 | NWS → ME | RP-ACK | See Note 2. |
| 30 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 7.1.4 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "04" |
| 31 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 7.1.5 |  |
| 32 | ME → UICC | FETCH |  |
| 33 | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.5 | [packing not required, 8-bit data] |
| 34 | ME → USER | May give information to user concerning what is happening | [No Alpha Identifier] |
| 35 | ME → NWS | Send RP-DATA containing SMS-PP (SEND SHORT MESSAGE) Message 7.5 | See Note 1. |
| 36 | NWS → ME | RP-ACK | See Note 2. |
| 37 | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 7.1.5 | [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "05" |
| 38 | USER → ME | The ME is switched off |  |
| Note 1:  In case of IMS the RP-DATA is contained in the SIP MESSAGE which is built according to TS 24.341 [37], clause 5.3.1.2 including PSI of the SMSC from EF PSISMSC.  Note 2:  In case of IMS the RP-ACK message is contained in the message body of the SIP MESSAGE. | | | |

PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 13

TP-UD "Short Message"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 23 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 8B |
|  | 18 | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F0 |
|  | 0D | 53 | F4 | 5B | 4E | 07 | 35 | CB | F3 | 79 | F8 | 5C |
|  | 06 |  |  |  |  |  |  |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 7.1

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 "01"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 13

TP-UD "Short Message"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F0 | 0D |
|  | 53 | F4 | 5B | 4E | 07 | 35 | CB | F3 | 79 | F8 | 5C | 06 |

TERMINAL RESPONSE: SEND SHORT MESSAGE 7.1.1/7.1.3/7.1.4, 7.1.5

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "The address data object holds the RP\_Destination\_Address"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 8 bit data

Message class class 0

TP-UDL 160

TP-UD "Two types are defined: - A short message to be sent to the network in an SMS‑SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

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

SMS-PP (SEND SHORT MESSAGE) Message 7.2

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "02"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 160

TP-UD "Two types are defined: - A short message to be sent to the network in an SMS‑SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 7.1.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing required

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "The address data object holds the RP Destination Address"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 160

TP-UD "Two types are defined: - A short message to be sent to the network in an SMS‑SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

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

SMS-PP (SEND SHORT MESSAGE) Message 7.3

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 "03"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 160

TP-UD "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp"

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.4

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier:

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 8-bit data

Message class class 0

TP-UDL 12

TP-UD "Test Message"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 30 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 00 | 86 | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F8 |
|  | 8B | 18 | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 |
|  | F4 | 0C | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 |
|  | 67 | 65 |  |  |  |  |  |  |  |  |  |  |

SMS-PP (SEND SHORT MESSAGE) Message 7.4

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "04"

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:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 04 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C |
|  | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |

PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.5

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT

TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 8-bit data

Message class class 0

TP-UDL 12

TP-UD "Test Message"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2E | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 86 |
|  | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 18 |
|  | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C |
|  | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |

SMS-PP (SEND SHORT MESSAGE) Message 7.5

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 "05"

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:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 01 | 05 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C |
|  | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |

27.22.4.10.7.5 Test requirement

The ME supporting eFDD or eTDD shall operate in the manner defined in expected sequence 7.1.

The ME supporting UTRAN shall operate in the manner defined in expected sequence 7.2.

##### 27.22.4.10.8 SEND SHORT MESSAGE (over SGs in E-UTRAN)

27.22.4.10.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.8.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.

- TS 24.301 [32] clause 5.6.3.1, 5.6.3.3 and 9.9.3.22

27.22.4.10.8.3 Test purpose

To verify that the ME correctly formats and sends a short message to the network (E-USS/NB-SS) using SMS over SGs as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.

27.22.4.10.8.4 Method of test

27.22.4.10.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and connected to the E-USS/NB-SS.

27.22.4.10.8.4.2 Procedure

Expected Sequence 8.1 (Send Short Message over SGs, E-UTRAN)

Perform the "SMS over SGs procedure" and continue with "Generic Test Procedure 1 (SEND SHORT MESSAGE)" as defined clause 27.22.4.10.7.4.2 as "Expected Sequence 8.1" with the following parameters:

* Used Network Simulator (NWS): E-USS/NB-SS
* SMS over SGs (DOWNLINK NAS TRANSPORT and UPLINK NAS TRANSPORT messages)  
   is used to send and receive short messages
* ME supports eFDD or eTDD or NB-IoT
* ME supports SMS-over-SGs.

SMS over SGs related procedure:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | The ME is switched on | ME will perform Profile Download and USIM initialisation |
| 2 | ME → NWS | ME performs regular network registration. | UE is afterwards in state Registered, Idle Mode (state 2) according to TS 36.508 [33]. |
| 3 |  | CONTINUE WITH STEP 4 Generic Test Procedure 1 (SEND SHORT MESSAGE) in clause 27.22.4.10.7.4.2 |  |

27.22.4.10.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.1.

#### 27.22.4.11 SEND SS

##### 27.22.4.11.1 SEND SS (normal)

27.22.4.11.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.1.3 Test purpose

To verify that the ME correctly translates and sends the supplementary service request indicated in the SEND SS proactive UICC command to the USS.

To verify that the ME returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the SS and any contents of the SS result as additional data.

27.22.4.11.1.4 Method of test

27.22.4.11.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.1.4.2 Procedure

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 1.1.1 |  |
| 4 | ME → USER | Display "Call Forward" |  |
| 5 | ME → USS | REGISTER 1.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 1.1.1A |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 1.1.1 |  |
| 4 | ME → USER | Display "Call Forward" |  |
| 5 | ME → USS | REGISTER 1.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 1.1.1B |  |

PROACTIVE COMMAND: SEND SS 1.1.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Call Forward"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 29 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0C | 43 | 61 | 6C | 6C | 20 | 46 | 6F | 72 | 77 | 61 | 72 |
|  | 64 | 89 | 10 | 91 | AA | 12 | 0A | 21 | 43 | 65 | 87 | 09 |
|  | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |  |  |  |  |

REGISTER 1.1A

Logically (only SS argument):

REGISTER SS ARGUMENT

SS-Code:

- Call Forwarding Unconditional

TeleserviceCode

- All Tele Services

ForwardedToNumber

- nature of address ind.: international

- numbering plan ind.: ISDN/Telephony (E.164)

- TBCD String: 01234567890123456789

- longFTN-Supported

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 15 | 04 | 01 | 21 | 83 | 01 | 00 | 84 | 0B | 91 | 10 |
|  | 32 | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 | 89 | 00 |  |

REGISTER 1.1B

Logically (only SS argument):

REGISTER SS ARGUMENT

SS-Code:

- Call Forwarding Unconditional

TeleserviceCode

- All Tele Services

ForwardedToNumber

- nature of address ind.: international

- numbering plan ind.: ISDN/Telephony (E.164)

- TBCD String: 01234567890123456789

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 13 | 04 | 01 | 21 | 83 | 01 | 00 | 84 | 0B | 91 | 10 |
|  | 32 | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 |  |  |  |

RELEASE COMPLETE (SS RETURN RESULT) 1.1A

Logically (only from operation code):

REGISTER 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

longForwardedToNumber

- nature of address ind.: international

- numbering plan ind.: ISDN/Telephony (E.164)

- TBCD String: 01234567890123456789

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 0A | A0 | 1A | 04 | 01 | 21 | 30 | 15 | 30 | 13 | 83 | 01 |
|  | 00 | 84 | 01 | 07 | 89 | 0B | 91 | 10 | 32 | 54 | 76 | 98 |
|  | 10 | 32 | 54 | 76 | 98 |  |  |  |  |  |  |  |

RELEASE COMPLETE (SS RETURN RESULT) 1.1B

Logically (only from operation code):

REGISTER 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:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 0A | A0 | 0D | 04 | 01 | 21 | 30 | 08 | 30 | 06 | 83 | 01 |
|  | 00 | 84 | 01 | 07 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND SS 1.1.1A

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Additional information: Operation Code and SS Parameters

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 1E |
|  | 00 | 0A | A0 | 1A | 04 | 01 | 21 | 30 | 15 | 30 | 13 |
|  | 83 | 01 | 00 | 84 | 01 | 07 | 89 | 0B | 91 | 10 | 32 |
|  | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 |  |  |  |

TERMINAL RESPONSE: SEND SS 1.1.1B

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Additional information: Operation Code and SS Parameters

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 11 |
|  | 00 | 0A | A0 | 0D | 04 | 01 | 21 | 30 | 08 | 30 | 06 |
|  | 83 | 01 | 00 | 84 | 01 | 07 |  |  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 1.1.1 |  |
| 4 | ME → USER | Display "Call Forward" |  |
| 5 | ME → USS | REGISTER 1.1A  Or  REGISTER 1.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN ERROR) 1.1 | [Return Error] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 1.2.1 |  |

RELEASE COMPLETE (SS RETURN ERROR) 1.1

Logically (only from error code):

Error Code: Facility not supported

Coding:

|  |  |  |  |
| --- | --- | --- | --- |
| Coding | 02 | 01 | 15 |

TERMINAL RESPONSE: SEND SS 1.2.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: SS Return Error

Additional information: Error Code

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 02 |
|  | 34 | 15 |  |  |  |  |  |  |  |  |  |

Expected Sequence 1.3 (SEND SS, call forward unconditional, all bearers, Reject)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 1.1.1 |  |
| 4 | ME → USER | Display "Call Forward" |  |
| 5 | ME → USS | REGISTER 1.1A  Or  REGISTER 1.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS REJECT) 1.1. | [Reject] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 1.3.1 |  |

RELEASE COMPLETE (SS REJECT) 1.1

Logically (only from problem code):

Problem Code:

- General problem

- Unrecognized component

Coding:

|  |  |  |  |
| --- | --- | --- | --- |
| Coding | 80 | 01 | 00 |

TERMINAL RESPONSE: SEND SS 1.3.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: SS Return Error

Additional information: No specific cause can be given

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 02 |
|  | 34 | 00 |  |  |  |  |  |  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 1.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 1.4.1 |  |
| 4 | ME → USER | Display "Call Forward" |  |
| 5 | ME → USS | REGISTER 1.2A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.2A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 1.4.1A |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 1.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 1.4.1 |  |
| 4 | ME → USER | Display "Call Forward" |  |
| 5 | ME → USS | REGISTER 1.2B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.2B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 1.4.1B |  |

PROACTIVE COMMAND: SEND SS 1.4.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Call Forward"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*0123456789012345678901234567\*11#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0C | 43 | 61 | 6C | 6C | 20 | 46 | 6F | 72 | 77 | 61 | 72 |
|  | 64 | 89 | 14 | 91 | AA | 12 | 0A | 21 | 43 | 65 | 87 | 09 |
|  | 21 | 43 | 65 | 87 | 09 | 21 | 43 | 65 | A7 | 11 | FB |  |

REGISTER 1.2A

Logically (only SS argument):

REGISTER SS ARGUMENT

RegisterSSArg

SS-Code

Call Forwarding Unconditional

TeleserviceCode

See Note 1

ForwardedToNumber

nature of address ind.: international

numbering plan ind.: ISDN/Telephony (E.164)

TBCD String: 0123456789012345678901234567

longFTN-Supported

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 19 | 04 | 01 | 21 | 83 | 01 | Note 1 | 84 | 0F | 91 | 10 |
|  | 32 | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 | 10 | 32 | 54 |
|  | 76 | 89 | 00 |  |  |  |  |  |  |  |  |  |

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

REGISTER 1.2B

Logically (only SS argument):

REGISTER SS ARGUMENT

RegisterSSArg

SS-Code

Call Forwarding Unconditional

TeleserviceCode

See Note 1

ForwardedToNumber

nature of address ind.: international

numbering plan ind.: ISDN/Telephony (E.164)

TBCD String: 0123456789012345678901234567

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 17 | 04 | 01 | 21 | 83 | 01 | Note 1 | 84 | 0F | 91 | 10 |
|  | 32 | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 | 10 | 32 | 54 |
|  | 76 |  |  |  |  |  |  |  |  |  |  |  |

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

Logically (only from operation code):

REGISTER SS RETURN RESULT

ForwardingInfo

SS-Code

- Call Forwarding Unconditional

ForwardFeatureList

ForwardingFeature

TeleserviceCode

- See Note 1

SS-Status

- state ind.: operative

- provision ind.: provisioned

- registration ind.: registered

- activation ind.: active

longForwardedToNumber

- nature of address ind.: international

- numbering plan ind.: ISDN/Telephony (E.164)

- TBCD String: 0123456789012345678901234567

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 0A | A0 | 1E | 04 | 01 | 21 | 30 | 19 | 30 | 17 | 83 | 01 |
|  | Note 1 | 84 | 01 | 07 | 89 | 0F | 91 | 10 | 32 | 54 | 76 | 98 |
|  | 10 | 32 | 54 | 76 | 98 | 10 | 32 | 54 | 76 |  |  |  |

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

RELEASE COMPLETE (SS RETURN RESULT) 1.2B

Logically (only from operation code):

REGISTER SS RETURN RESULT

ForwardingInfo

SS-Code

- Call Forwarding Unconditional

ForwardFeatureList

ForwardingFeature

TeleserviceCode

- See Note 1

SS-Status

- state ind.: operative

- provision ind.: provisioned

- registration ind.: registered

- activation ind.: active

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 0A | A0 | 0D | 04 | 01 | 21 | 30 | 08 | 30 | 06 | 83 | 01 |
|  | Note 1 | 84 | 01 | 07 |  |  |  |  |  |  |  |  |

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

TERMINAL RESPONSE: SEND SS 1.4.1A

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Additional information: Operation Code and SS Parameters

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 22 |
|  | 00 | 0A | A0 | 1E | 04 | 01 | 21 | 30 | 19 | 30 | 17 |
|  | 83 | 01 | Note 1 | 84 | 01 | 07 | 89 | 0F | 91 | 10 | 32 |
|  | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 | 10 | 32 | 54 |
|  | 76 |  |  |  |  |  |  |  |  |  |  |

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

TERMINAL RESPONSE: SEND SS 1.4.1B

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Additional information: Operation Code and SS Parameters

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 11 |
|  | 00 | 0A | A0 | 0D | 04 | 01 | 21 | 30 | 08 | 30 | 06 |
|  | 83 | 01 | Note 1 | 84 | 01 | 07 |  |  |  |  |  |

Note 1: TeleserviceCode is '11' for "Telephony" or is '10' for "allSpeechTransmissionServices"

Expected Sequence 1.5 (SEND SS, interrogate CLIR status, successful, alpha identifier limits)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 1.5.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 1.5.1 |  |
| 4 | ME → USER | Display "Even if the Fixed Dialling Number service is enabled, the supplementary service control string included in the SEND SS proactive command shall not be checked against those of the FDN list. Upon receiving this command, the ME shall deci" |  |
| 5 | ME → USS | REGISTER 1.3 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.3 | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 1.5.1 |  |

PROACTIVE COMMAND: SEND SS 1.5.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Even if the Fixed Dialling Number service is enabled, the supplementary service control string included in the SEND SS proactive command shall not be checked against those of the FDN list. Upon receiving this command, the ME shall deci"

SS String

TON: Undefined

NPI: Undefined

SS string: "\*#31#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 81 | FD | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 |
|  | 85 | 81 | EB | 45 | 76 | 65 | 6 | 20 | 69 | 66 | 20 | 74 |
|  | 68 | 65 | 20 | 46 | 69 | 78 | 65 | 64 | 20 | 44 | 69 | 61 |
|  | 6C | 6C | 69 | 6E | 67 | 20 | 4E | 75 | 6D | 62 | 65 | 72 |
|  | 20 | 73 | 65 | 72 | 76 | 69 | 63 | 65 | 20 | 69 | 73 | 20 |
|  | 65 | 6E | 61 | 62 | 6C | 65 | 64 | 2C | 20 | 74 | 68 | 65 |
|  | 20 | 73 | 75 | 70 | 70 | 6C | 65 | 6D | 65 | 6E | 74 | 61 |
|  | 72 | 79 | 20 | 73 | 65 | 72 | 76 | 69 | 63 | 65 | 20 | 63 |
|  | 6F | 6E | 74 | 72 | 6F | 6C | 20 | 73 | 74 | 72 | 69 | 6E |
|  | 67 | 20 | 69 | 6E | 63 | 6C | 75 | 64 | 65 | 64 | 20 | 69 |
|  | 6E | 20 | 74 | 68 | 65 | 20 | 53 | 45 | 4E | 44 | 20 | 53 |
|  | 53 | 20 | 70 | 72 | 6F | 61 | 63 | 74 | 69 | 76 | 65 | 20 |
|  | 63 | 6F | 6D | 6D | 61 | 6E | 64 | 20 | 73 | 68 | 61 | 6C |
|  | 6C | 20 | 6E | 6F | 74 | 20 | 62 | 65 | 20 | 63 | 68 | 65 |
|  | 63 | 6B | 65 | 64 | 20 | 61 | 67 | 61 | 69 | 6E | 73 | 74 |
|  | 20 | 74 | 68 | 6F | 73 | 65 | 20 | 6F | 66 | 20 | 74 | 68 |
|  | 65 | 20 | 46 | 44 | 4E | 20 | 6C | 69 | 73 | 74 | 2E | 20 |
|  | 55 | 70 | 6F | 6E | 20 | 72 | 65 | 63 | 65 | 69 | 76 | 69 |
|  | 6E | 67 | 20 | 74 | 68 | 69 | 73 | 20 | 63 | 6F | 6D | 6D |
|  | 61 | 6E | 64 | 2C | 20 | 74 | 68 | 65 | 20 | 4D | 45 | 20 |
|  | 73 | 68 | 61 | 6C | 6C | 20 | 64 | 65 | 63 | 69 | 89 | 04 |
|  | FF | BA | 13 | FB |  |  |  |  |  |  |  |  |

REGISTER 1.3

Logically (only SS argument):

INTERROGATE SS ARGUMENT

SS-Code

- Calling Line Id Restriction

Coding:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 03 | 04 | 01 | 12 |

RELEASE COMPLETE (SS RETURN RESULT) 1.3

Logically (only from operation code):

INTERROGATE SS RESULT

CliRestrictionInfo

SS-Status

- state ind.: operative

- provision ind.: provisioned

- registration ind.: registered

- activation ind.: not active

CliRestrictionOption

- Temporary Def Allowed

Coding:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 0E | A4 | 06 | 04 | 01 | 06 | 0A | 01 | 02 |

TERMINAL RESPONSE: SEND SS 1.5.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Additional information

Operation Code: SS Code

Parameters: SS Return Result

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 0A |
|  | 00 | 0E | A4 | 06 | 04 | 01 | 06 | 0A | 01 | 02 |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 1.6.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 1.6.1 |  |
| 4 | ME | Should not give any information to the user on the fact that the ME is sending an SS request |  |
| 5 | ME → USS | REGISTER 1.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 1.1.1A |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 1.6.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 1.6.1 |  |
| 4 | ME | Should not give any information to the user on the fact that the ME is sending an SS request |  |
| 5 | ME → USS | REGISTER 1.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 1.1.1B |  |

PROACTIVE COMMAND: SEND SS 1.6.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: null data object

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 00 | 89 | 10 | 91 | AA | 12 | 0A | 21 | 43 | 65 | 87 | 09 |
|  | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |  |  |  |  |

27.22.4.11.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1 to 1.6.

##### 27.22.4.11.2 SEND SS (Icon support)

27.22.4.11.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.2.2 Conformance requirement

27.22.4.11.2.3 Test purpose

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

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

27.22.4.11.2.4 Method of test

27.22.4.11.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and to the USS. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

The elementary files are coded as Toolkit default.

27.22.4.11.2.4.2 Procedure

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 2.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 2.1.1 | [BASIC-ICON, self-explanatory] |
| 4 | ME → USER | Display the basic icon without the alpha identifier |  |
| 5 | ME → USS | REGISTER 1.1A  Or  REGISTER 1.1B | Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1A or  RELEASE COMPLETE (SS RETURN RESULT) 1.1B | [Successful]  Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 2.1.1AA or  TERMINAL RESPONSE: SEND SS 2.1.1AB | [Command performed successfully]  Option AA applies if A.1/63 is supported,  Option AB applies if A.1/63 is not supported |

PROACTIVE COMMAND: SEND SS 2.1.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Basic Icon"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Icon Identifier:

Icon qualifier: icon is self-explanatory

Icon Identifier: record 1 in EF(IMG)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2B | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0A | 42 | 61 | 73 | 69 | 63 | 20 | 49 | 63 | 6F | 6E | 89 |
|  | 10 | 91 | AA | 12 | 0A | 21 | 43 | 65 | 87 | 09 | 21 | 43 |
|  | 65 | 87 | A9 | 01 | FB | 9E | 02 | 00 | 01 |  |  |  |

TERMINAL RESPONSE: SEND SS 2.1.1AA

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Additional information: Operation Code and SS Parameters

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 1E |
|  | 00 | 0A | A0 | 1A | 04 | 01 | 21 | 30 | 15 | 30 | 13 |
|  | 83 | 01 | 00 | 84 | 01 | 07 | 89 | 0B | 91 | 10 | 32 |
|  | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 |  |  |  |

TERMINAL RESPONSE: SEND SS 2.1.1AB

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Additional information: Operation Code and SS Parameters

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 11 |
|  | 00 | 0A | A0 | 0D | 04 | 01 | 21 | 30 | 08 | 30 | 06 |
|  | 83 | 01 | 00 | 84 | 01 | 07 |  |  |  |  |  |

Expected Sequence 2.1B (SEND SS, call forward unconditional, all bearers, successful, basic icon self explanatory, requested icon could not be displayed)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 2.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 2.1.1 | [BASIC-ICON, self-explanatory] |
| 4 | ME → USER | Display "Basic Icon" without the icon |  |
| 5 | ME → USS | REGISTER 1.1A  Or  REGISTER 1.1B | Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B | [Successful]  Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 2.1.1BA or  TERMINAL RESPONSE: SEND SS 2.1.1BB | [Command performed successfully, but requested icon could not be displayed]  Option BA applies if A.1/63 is supported,  Option BB applies if A.1/63 is not supported |

TERMINAL RESPONSE: SEND SS 2.1.1BA

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

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

Additional information: Operation Code and SS Parameters

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 1E |
|  | 04 | 0A | A0 | 1A | 04 | 01 | 21 | 30 | 15 | 30 | 13 |
|  | 83 | 01 | 00 | 84 | 01 | 07 | 89 | 0B | 91 | 10 | 32 |
|  | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 |  |  |  |

TERMINAL RESPONSE: SEND SS 2.1.1BB

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

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

Additional information: Operation Code and SS Parameters

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 03 | 11 |
|  | 04 | 0A | A0 | 0D | 04 | 01 | 21 | 30 | 08 | 30 | 06 |
|  | 83 | 01 | 00 | 84 | 01 | 07 |  |  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 2.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 2.2.1 | [COLOUR-ICON, self-explanatory] |
| 4 | ME → USER | Display the colour icon without thealpha identifier |  |
| 5 | ME → USS | REGISTER 1.1A  Or  REGISTER 1.1B | Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B | [Successful]  Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 2.1.1AA or  TERMINAL RESPONSE: SEND SS 2.1.1AB | [Command performed successfully]  Option AA applies if A.1/63 is supported,  Option AB applies if A.1/63 is not supported |

PROACTIVE COMMAND: SEND SS 2.2.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Colour Icon"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Icon Identifier:

Icon qualifier: icon is self-explanatory

Icon Identifier: record 2 in EF(IMG)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0B | 43 | 6F | 6C | 6F | 75 | 72 | 20 | 49 | 63 | 6F | 6E |
|  | 89 | 10 | 91 | AA | 12 | 0A | 21 | 43 | 65 | 87 | 09 | 21 |
|  | 43 | 65 | 87 | A9 | 01 | FB | 9E | 02 | 00 | 02 |  |  |

Expected Sequence 2.2B (SEND SS, call forward unconditional, all bearers, successful, colour icon self explanatory, requested icon could not be displayed)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 2.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 2.2.1 | [COLOUR-ICON, self-explanatory] |
| 4 | ME → USER | Display "Colour Icon" without the icon |  |
| 5 | ME → USS | REGISTER 1.1A  Or  REGISTER 1.1B | Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B | [Successful]  Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 2.1.1BA or  TERMINAL RESPONSE: SEND SS 2.1.1BB | [Command performed but requested icon could not be displayed]  Option BA applies if A.1/63 is supported,  Option BB applies if A.1/63 is not supported |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 2.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 2.3.1 | [BASIC-ICON, non self-explanatory] |
| 4 | ME → USER | Display "Basic Icon" and the basic icon |  |
| 5 | ME → USS | REGISTER 1.1A  Or  REGISTER 1.1B | Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B | [Successful]  Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 2.1.1AA or  TERMINAL RESPONSE: SEND SS 2.1.1AB | [Command performed successfully]  Option AA applies if A.1/63 is supported,  Option AB applies if A.1/63 is not supported |

PROACTIVE COMMAND: SEND SS 2.3.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha Identifier

Text: "Basic Icon"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Icon Identifier

Icon qualifier: icon is non self-explanatory

Icon Identifier: record 1 in EF(IMG)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2B | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0A | 42 | 61 | 73 | 69 | 63 | 20 | 49 | 63 | 6F | 6E | 89 |
|  | 10 | 91 | AA | 12 | 0A | 21 | 43 | 65 | 87 | 09 | 21 | 43 |
|  | 65 | 87 | A9 | 01 | FB | 9E | 02 | 01 | 01 |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 2.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 2.3.1 | [BASIC-ICON, non self-explanatory] |
| 4 | ME → USER | Display "Basic Icon" without the icon |  |
| 5 | ME → USS | REGISTER 1.1A  Or  REGISTER 1.1B | Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B | [Successful]  Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 2.1.1BA or  TERMINAL RESPONSE: SEND SS 2.1.1BB | [Command performed but requested icon could not be displayed]  Option BA applies if A.1/63 is supported,  Option BB applies if A.1/63 is not supported |

Expected Sequence 2.4 (SEND SS, call forward unconditional, all bearers, successful, basic icon non self-explanatory, no alpha identifier presented)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 2.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 2.4.1 | [BASIC-ICON, non self-explanatory] |
| 4 | ME → UICC | TERMINAL RESPONSE: SEND SS 2.4.1 | [Command data not understood by ME] |

PROACTIVE COMMAND: SEND SS 2.4.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789#"

Icon Identifier

Icon qualifier: icon is non self-explanatory

Icon Identifier: record 1 in EF(IMG)

Coding:

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

TERMINAL RESPONSE: SEND SS 2.4.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command data not understood by ME

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 32 |

27.22.4.11.2.5 Test requirement

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

##### 27.22.4.11.3 SEND SS (UCS2 display in Cyrillic)

27.22.4.11.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.3.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionnally, the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in: ISO/IEC 10646 [17].

27.22.4.11.3.3 Test purpose

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

27.22.4.11.3.4 Method of test

27.22.4.11.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.3.4.2 Procedure

Expected Sequence 3.1 (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Cyrillic)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 3.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 3.1.1 |  |
| 4 | ME → USER | Display "ЗДРАВСТВУЙТЕ" | ["Hello" in Russian] |
| 5 | ME → USS | REGISTER 1.1A  Or  REGISTER 1.1B | Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1A or RELEASE COMPLETE (SS RETURN RESULT) 1.1B | [Successful]  Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 1.1.1A or  TERMINAL RESPONSE: SEND SS 1.1.1B | [Command performed successfully]  Option A applies if A.1/63 is supported,  Option B applies if A.1/63 is not supported |

PROACTIVE COMMAND: SEND SS 3.1.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)

Text: "ЗДРАВСТВУЙТЕ"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 36 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 19 | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 |
|  | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 |
|  | 04 | 15 | 89 | 10 | 91 | AA | 12 | 0A | 21 | 43 | 65 | 87 |
|  | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |  |  |  |

27.22.4.11.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

##### 27.22.4.11.4 SEND SS (support of Text Attribute)

27.22.4.11.4.1 SEND SS (support of Text Attribute – Left Alignment)

27.22.4.11.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.1.3 Test purpose

To verify that the ME displays the alpha identifier according to the left alignment text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.1.4 Method of test

27.22.4.11.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.1.4.2 Procedure

Expected Sequence 4.1A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Left Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.1.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with left alignment] |
| 5 | ME → USS | REGISTER 4.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.1.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.1.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/12, no alignment change will take place] |
| 12 | ME → USS | REGISTER 4.1A |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |

Expected Sequence 4.1B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Left Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.1.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with left alignment] |
| 5 | ME → USS | REGISTER 4.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.1.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.1.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/12, no alignment change will take place] |
| 12 | ME → USS | REGISTER 4.1B |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |

PROACTIVE COMMAND: SEND SS 4.1.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 00 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.1.2

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |

REGISTER 4.1A

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

REGISTER 4.1B

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

RELEASE COMPLETE (SS RETURN RESULT) 4.1A

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1A

RELEASE COMPLETE (SS RETURN RESULT) 4.1B

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1B

TERMINAL RESPONSE: SEND SS 4.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

TERMINAL RESPONSE: SEND SS 4.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

27.22.4.11.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.11.4.2 SEND SS (support of Text Attribute – Center Alignment)

27.22.4.11.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.2.3 Test purpose

To verify that the ME displays the alpha identifier according to the center alignment text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.2.4 Method of test

27.22.4.11.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.2.4.2 Procedure

Expected Sequence 4.2A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Center Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.2.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with center alignment] |
| 5 | ME → USS | REGISTER 4.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.2.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.2.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with center alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/12, no alignment change will take place] |
| 12 | ME → USS | REGISTER 4.1A |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |

Expected Sequence 4.2B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Center Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.2.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with center alignment] |
| 5 | ME → USS | REGISTER 4.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.2.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.2.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with center alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/12, no alignment change will take place] |
| 12 | ME → USS | REGISTER 4.1B |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |

PROACTIVE COMMAND: SEND SS 4.2.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 01 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.2.2

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |

27.22.4.11.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.11.4.3 SEND SS (support of Text Attribute – Right Alignment)

27.22.4.11.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.3.3 Test purpose

To verify that the ME displays the alpha identifier according to the right alignment text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.3.4 Method of test

27.22.4.11.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.3.4.2 Procedure

Expected Sequence 4.3A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Right Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.3.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with right alignment] |
| 5 | ME → USS | REGISTER 4.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.3.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.3.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/12, no alignment change will take place] |
| 12 | ME → USS | REGISTER 4.1A |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |

Expected Sequence 4.3B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Right Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.3.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with right alignment] |
| 5 | ME → USS | REGISTER 4.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.3.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.3.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/12, no alignment change will take place] |
| 12 | ME → USS | REGISTER 4.1B |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |

PROACTIVE COMMAND: SEND SS 4.3.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 02 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.3.2

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |

27.22.4.11.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.11.4.4 SEND SS (support of Text Attribute – Large Font Size)

27.22.4.11.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.4.3 Test purpose

To verify that the ME displays the alpha identifier according to the large font size text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.4.4 Method of test

27.22.4.11.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.4.4.2 Procedure

Expected Sequence 4.4A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Large Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.4.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with large font size] |
| 5 | ME → USS | REGISTER 4.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.4.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.4.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with normal font size] |
| 12 | ME → USS | REGISTER 4.1A |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.4.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.4.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with large font size] |
| 19 | ME → USS | REGISTER 4.1A |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.4.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.4.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with normal font size] |
| 26 | ME → USS | REGISTER 4.1A |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |

Expected Sequence 4.4B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Large Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.4.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with large font size] |
| 5 | ME → USS | REGISTER 4.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.4.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.4.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with normal font size] |
| 12 | ME → USS | REGISTER 4.1B |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.4.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.4.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with large font size] |
| 19 | ME → USS | REGISTER 4.1B |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.4.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.4.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with normal font size] |
| 26 | ME → USS | REGISTER 4.1B |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |

PROACTIVE COMMAND: SEND SS 4.4.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 04 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.4.2

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 00 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.4.3

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |

27.22.4.11.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.11.4.5 SEND SS (support of Text Attribute – Small Font Size)

27.22.4.11.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.5.3 Test purpose

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.5.4 Method of test

27.22.4.11.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.5.4.2 Procedure

Expected Sequence 4.5A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Small Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.5.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.5.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with small font size] |
| 5 | ME → USS | REGISTER 4.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.5.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.5.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with normal font size] |
| 12 | ME → USS | REGISTER 4.1A |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.5.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.5.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with small font size] |
| 19 | ME → USS | REGISTER 4.1A |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.5.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.5.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with normal font size] |
| 26 | ME → USS | REGISTER 4.1A |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |

Expected Sequence 4.5B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Small Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.5.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.5.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with small font size] |
| 5 | ME → USS | REGISTER 4.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.5.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.5.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with normal font size] |
| 12 | ME → USS | REGISTER 4.1B |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.5.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.5.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with small font size] |
| 19 | ME → USS | REGISTER 4.1B |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.5.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.5.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with normal font size] |
| 26 | ME → USS | REGISTER 4.1B |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |

PROACTIVE COMMAND: SEND SS 4.5.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 08 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.5.2

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 00 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.5.3

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |

27.22.4.11.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.11.4.6 SEND SS (support of Text Attribute – Bold On)

27.22.4.11.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.6.3 Test purpose

To verify that the ME displays the alpha identifier according to the bold text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.6.4 Method of test

27.22.4.11.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.6.4.2 Procedure

Expected Sequence 4.6A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Bold On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.6.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.6.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with bold on] |
| 5 | ME → USS | REGISTER 4.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.6.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.6.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with bold off] |
| 12 | ME → USS | REGISTER 4.1A |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.6.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.6.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with bold on] |
| 19 | ME → USS | REGISTER 4.1A |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.6.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.6.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with bold off] |
| 26 | ME → USS | REGISTER 4.1A |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |

Expected Sequence 4.6B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Bold On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.6.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.6.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with bold on] |
| 5 | ME → USS | REGISTER 4.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.6.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.6.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with bold off] |
| 12 | ME → USS | REGISTER 4.1B |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.6.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.6.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with bold on] |
| 19 | ME → USS | REGISTER 4.1B |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.6.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.6.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with bold off] |
| 26 | ME → USS | REGISTER 4.1B |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |

PROACTIVE COMMAND: SEND SS 4.6.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 10 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.6.2

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 00 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.6.3

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |

27.22.4.11.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.11.4.7 SEND SS (support of Text Attribute – Italic On)

27.22.4.11.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.7.3 Test purpose

To verify that the ME displays the alpha identifier according to the italic text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.7.4 Method of test

27.22.4.11.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.7.4.2 Procedure

Expected Sequence 4.7A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Italic On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.7.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.7.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with italic on] |
| 5 | ME → USS | REGISTER 4.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.7.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.7.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with italic off] |
| 12 | ME → USS | REGISTER 4.1A |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.7.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.7.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with italic on] |
| 19 | ME → USS | REGISTER 4.1A |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.7.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.7.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with italic off] |
| 26 | ME → USS | REGISTER 4.1A |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |

Expected Sequence 4.7B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Italic On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.7.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.7.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with italic on] |
| 5 | ME → USS | REGISTER 4.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.7.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.7.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with italic off] |
| 12 | ME → USS | REGISTER 4.1B |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.7.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.7.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with italic on] |
| 19 | ME → USS | REGISTER 4.1B |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.7.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.7.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with italic off] |
| 26 | ME → USS | REGISTER 4.1B |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |

PROACTIVE COMMAND: SEND SS 4.7.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 20 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.7.2

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 00 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.7.3

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |

27.22.4.11.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.11.4.8 SEND SS (support of Text Attribute – Underline On)

27.22.4.11.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.8.3 Test purpose

To verify that the ME displays the alpha identifier according to the underline text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.8.4 Method of test

27.22.4.11.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.8.4.2 Procedure

Expected Sequence 4.8A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Underline On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.8.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.8.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with underline on] |
| 5 | ME → USS | REGISTER 4.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.8.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.8.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with underline off] |
| 12 | ME → USS | REGISTER 4.1A |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.8.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.8.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with underline on] |
| 19 | ME → USS | REGISTER 4.1A |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.8.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.8.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with underline off] |
| 26 | ME → USS | REGISTER 4.1A |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |

Expected Sequence 4.8B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Underline On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.8.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.8.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with underline on] |
| 5 | ME → USS | REGISTER 4.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.8.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.8.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with underline off] |
| 12 | ME → USS | REGISTER 4.1B |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.8.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.8.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with underline on] |
| 19 | ME → USS | REGISTER 4.1B |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.8.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.8.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with underline off] |
| 26 | ME → USS | REGISTER 4.1B |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |

PROACTIVE COMMAND: SEND SS 4.8.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 40 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.8.2

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 00 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.8.3

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |

27.22.4.11.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.11.4.9 SEND SS (support of Text Attribute – Strikethrough On)

27.22.4.11.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.9.3 Test purpose

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.9.4 Method of test

27.22.4.11.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.9.4.2 Procedure

Expected Sequence 4.9A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Strikethrough On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.9.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.9.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with strikethrough on] |
| 5 | ME → USS | REGISTER 4.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.9.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.9.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with strikethrough off] |
| 12 | ME → USS | REGISTER 4.1A |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.9.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.9.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with strikethrough on] |
| 19 | ME → USS | REGISTER 4.1A |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.9.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.9.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with strikethrough off] |
| 26 | ME → USS | REGISTER 4.1A |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |

Expected Sequence 4.9B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Strikethrough On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.9.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.9.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with strikethrough on] |
| 5 | ME → USS | REGISTER 4.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.9.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.9.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with strikethrough off] |
| 12 | ME → USS | REGISTER 4.1B |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.9.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.9.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with strikethrough on] |
| 19 | ME → USS | REGISTER 4.1B |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.9.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.9.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Message shall be formatted with strikethrough off] |
| 26 | ME → USS | REGISTER 4.1B |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |

PROACTIVE COMMAND: SEND SS 4.9.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 80 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.9.2

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 00 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.9.3

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |

27.22.4.11.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.11.4.10 SEND SS (support of Text Attribute – Foreground and Background Colour)

27.22.4.11.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.10.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

27.22.4.11.4.10.3 Test purpose

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.11.4.10.4 Method of test

27.22.4.11.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.4.10.4.2 Procedure

Expected Sequence 4.10A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Foreground and Background Colour)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.10.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.10.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with foreground and background colour according to text attribute configuration] |
| 5 | ME → USS | REGISTER 4.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.10.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.10.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with ME's default foreground and background colour] |
| 12 | ME → USS | REGISTER 4.1A |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1A | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1A |  |

Expected Sequence 4.10B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Foreground and Background Colour)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.10.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.10.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with foreground and background colour according to text attribute configuration] |
| 5 | ME → USS | REGISTER 4.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 4.10.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND SS 4.10.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with ME's default foreground and background colour] |
| 12 | ME → USS | REGISTER 4.1B |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1B | [Successful] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND SS 4.1.1B |  |

PROACTIVE COMMAND: SEND SS 4.10.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|  | 04 | 00 | 10 | 00 | B4 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: SEND SS 4.10.2

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|  | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |

27.22.4.11.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

##### 27.22.4.11.5 SEND SS (UCS2 display in Chinese)

27.22.4.11.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.5.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionnally, the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in: ISO/IEC 10646 [17].

27.22.4.11.5.3 Test purpose

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

27.22.4.11.5.4 Method of test

27.22.4.11.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.5.4.2 Procedure

Expected Sequence 5.1A (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Chinese)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 5.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 5.1.1 |  |
| 4 | ME → USER | Display "你好" | ["Hello" in Chinese] |
| 5 | ME → USS | REGISTER 5.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 5.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 5.1.1A | [Command performed successfully] |

Expected Sequence 5.1B (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Chinese)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 5.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 5.1.1 |  |
| 4 | ME → USER | Display "你好" | ["Hello" in Chinese] |
| 5 | ME → USS | REGISTER 5.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 5.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 5.1.1B | [Command performed successfully] |

PROACTIVE COMMAND: SEND SS 5.1.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)

Text: "你好"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 05 | 80 | 4F | 60 | 59 | 7D | 89 | 10 | 91 | AA | 12 | 0A |
|  | 21 | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |

REGISTER 5.1A

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

REGISTER 5.1B

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

RELEASE COMPLETE (SS RETURN RESULT) 5.1A

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1A

RELEASE COMPLETE (SS RETURN RESULT) 5.1B

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1B

TERMINAL RESPONSE: SEND SS 5.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

TERMINAL RESPONSE: SEND SS 5.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

27.22.4.11.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

##### 27.22.4.11.6 SEND SS (UCS2 display in Katakana)

27.22.4.11.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.6.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionnally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in: ISO/IEC 10646 [17].

27.22.4.11.6.3 Test purpose

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

27.22.4.11.6.4 Method of test

27.22.4.11.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.11.6.4.2 Procedure

Expected Sequence 6.1A (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Katakana)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 6.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 6.1.1 |  |
| 4 | ME → USER | Display "ル" | [Character in Katakana] |
| 5 | ME → USS | REGISTER 6.1A |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 6.1A | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 6.1.1A | [Command performed successfully] |

Expected Sequence 6.1B (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Katakana)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND SS 6.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND SS 6.1.1 |  |
| 4 | ME → USER | Display "ル" | [Character in Katakana] |
| 5 | ME → USS | REGISTER 6.1B |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 6.1B | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND SS 6.1.1B | [Command performed successfully] |

PROACTIVE COMMAND: SEND SS 6.1.1

Logically:

Command details

Command number: 1

Command type: SEND SS

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)

Text: "ル"

SS String

TON: International

NPI: "ISDN / telephone numbering plan"

SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 03 | 80 | 30 | EB | 89 | 10 | 91 | AA | 12 | 0A | 21 | 43 |
|  | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |  |  |

REGISTER 6.1A

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

REGISTER 6.1B

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

RELEASE COMPLETE (SS RETURN RESULT) 6.1A

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1A

RELEASE COMPLETE (SS RETURN RESULT) 6.1B

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1B

TERMINAL RESPONSE: SEND SS 6.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

TERMINAL RESPONSE: SEND SS 6.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

27.22.4.11.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

#### 27.22.4.12 SEND USSD

##### 27.22.4.12.1 SEND USSD (normal)

27.22.4.12.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in: ISO/IEC 10646 [17].

27.22.4.12.1.3 Test purpose

To verify that the ME correctly translates and sends the unstructured supplementary service request indicated in the SEND USSD proactive UICC command to the USS.

To verify that the ME returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the USSD request and including a USSD result as a text string in the TERMINAL RESPONSE.

27.22.4.12.1.4 Method of test

27.22.4.12.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.1.4.2 Procedure

Expected Sequence 1.1 (SEND USSD, 7-bit data, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.1.1 |  |
| 4 | ME → USER | Display "7-bit USSD" |  |
| 5 | ME → USS | REGISTER 1.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.1.1 |  |

PROACTIVE COMMAND: SEND USSD 1.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "7-bit USSD"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 50 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0A | 37 | 2D | 62 | 69 | 74 | 20 | 55 | 53 | 53 | 44 | 8A |
|  | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91 | 49 | E5 | 92 |
|  | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5 | 5E | B1 | 59 |
|  | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A | AD | 5E | B3 |
|  | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6 | 3B | 3E | AF |
|  | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E5 | 60 |  |  |

REGISTER 1.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 3D | 04 | 01 | F0 | 04 | 38 | 41 | E1 | 90 | 58 | 34 |
|  | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|  | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|  | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|  | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|  | C3 | E5 | 60 |  |  |  |  |  |  |  |  |  |

RELEASE COMPLETE (SS RETURN RESULT) 1.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 1E | 04 | 01 | F0 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|  | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|  | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 1.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

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

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

PROACTIVE COMMAND: SEND USSD 1.2.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

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 | 44 | 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: UICC

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 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.3.1 |  |
| 4 | ME → USER | Display "UCS2 USSD" |  |
| 5 | ME → USS | REGISTER 1.3 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.3 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.3.1 |  |

PROACTIVE COMMAND: SEND USSD 1.3.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

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 | 48 | 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: UICC

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 |  |  |  |  |  |  |

Expected Sequence 1.4 (SEND USSD, 7-bit data, unsuccessful (Return Error))

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.1.1 |  |
| 4 | ME → USER | Display "7-bit USSD" |  |
| 5 | ME → USS | REGISTER 1.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN ERROR) 1.1 | Return Error |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.4.1 |  |

RELEASE COMPLETE (SS RETURN ERROR) 1.1

Logically (only from Return Error code):

ProcessUnstructuredSS-Request RETURN ERROR

Return Error code:

- Unknown alphabet

Coding:

|  |  |  |  |
| --- | --- | --- | --- |
| Coding | 02 | 01 | 47 |

TERMINAL RESPONSE: SEND USSD 1.4.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: USSD Return Error

Additional information: "Unknown alphabet"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 02 |
|  | 37 | 47 |  |  |  |  |  |  |  |  |  |

Expected Sequence 1.5 (SEND USSD, 7-bit data, unsuccessful (Reject))

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.1.1 |  |
| 4 | ME → USER | Display "7-bit USSD" |  |
| 5 | ME → USS | REGISTER 1.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS REJECT) 1.1 | Reject |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.5.1 |  |

RELEASE COMPLETE (SS REJECT) 1.1

Logically (only from Problem code):

ProcessUnstructuredSS-Request REJECT

Invoke Problem code:

- Mistyped parameter

Coding:

|  |  |  |  |
| --- | --- | --- | --- |
| Coding | 81 | 01 | 02 |

TERMINAL RESPONSE: SEND USSD 1.5.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: USSD Return Error

Additional information: "No specific cause can be given"

Coding:

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

Expected Sequence 1.6 (SEND USSD, 256 octets, 7-bit data, successful, long alpha identifier)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.6.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.6.1 |  |
| 4 | ME → USER | Display "once a RELEASE COMPLETE message containing the USSD Return Result message not containing an error has been received from the network, the ME shall inform the SIM that the command has" |  |
| 5 | ME → USS | REGISTER 1.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.1.1 |  |

PROACTIVE COMMAND: SEND USSD 1.6.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "once a RELEASE COMPLETE message containing the USSD Return Result message not containing an error has been received from the network, the ME shall inform the SIM that the command has"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 81 | FD | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 |
|  | 85 | 81 | B6 | 6F | 6E | 63 | 65 | 20 | 61 | 20 | 52 | 45 |
|  | 4C | 45 | 41 | 53 | 45 | 20 | 43 | 4F | 4D | 50 | 4C | 45 |
|  | 54 | 45 | 20 | 6D | 65 | 73 | 73 | 61 | 67 | 65 | 20 | 63 |
|  | 6F | 6E | 74 | 61 | 69 | 6E | 69 | 6E | 67 | 20 | 74 | 68 |
|  | 65 | 20 | 55 | 53 | 53 | 44 | 20 | 52 | 65 | 74 | 75 | 72 |
|  | 6E | 20 | 52 | 65 | 73 | 75 | 6C | 74 | 20 | 6D | 65 | 73 |
|  | 73 | 61 | 67 | 65 | 20 | 6E | 6F | 74 | 20 | 63 | 6F | 6E |
|  | 74 | 61 | 69 | 6E | 69 | 6E | 67 | 20 | 61 | 6E | 20 | 65 |
|  | 72 | 72 | 6F | 72 | 20 | 68 | 61 | 73 | 20 | 62 | 65 | 65 |
|  | 6E | 20 | 72 | 65 | 63 | 65 | 69 | 76 | 65 | 64 | 20 | 66 |
|  | 72 | 6F | 6D | 20 | 74 | 68 | 65 | 20 | 6E | 65 | 74 | 77 |
|  | 6F | 72 | 6B | 2C | 20 | 74 | 68 | 65 | 20 | 4D | 45 | 20 |
|  | 73 | 68 | 61 | 6C | 6C | 20 | 69 | 6E | 66 | 6F | 72 | 6D |
|  | 20 | 74 | 68 | 65 | 20 | 53 | 49 | 4D | 20 | 74 | 68 | 61 |
|  | 74 | 20 | 74 | 68 | 65 | 20 | 63 | 6F | 6D | 6D | 61 | 6E |
|  | 64 | 20 | 68 | 61 | 73 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

Expected Sequence 1.7 (SEND USSD, 7-bit data, successful, no alpha identifier)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.7.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.7.1 |  |
| 4 | ME → USER | Optionally display an informative message |  |
| 5 | ME → USS | REGISTER 1.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.1.1 |  |

PROACTIVE COMMAND: SEND USSD 1.7.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 44 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 8A |
|  | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91 | 49 | E5 | 92 |
|  | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5 | 5E | B1 | 59 |
|  | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A | AD | 5E | B3 |
|  | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6 | 3B | 3E | AF |
|  | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E5 | 60 |  |  |

Expected Sequence 1.8 (SEND USSD, 7-bit data, successful, null length alpha identifier)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.8.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.8.1 |  |
| 4 | ME → USER | the ME should not give any information to the user on the fact that the ME is sending a USSD request |  |
| 5 | ME → USS | REGISTER 1.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 1.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.1.1 |  |

PROACTIVE COMMAND: SEND USSD 1.8.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: ""

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 46 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 00 | 8A | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91 | 49 |
|  | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5 | 5E |
|  | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A | AD |
|  | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6 | 3B |
|  | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E5 | 60 |

27.22.4.12.1.5 Test requirement

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

##### 27.22.4.12.2 SEND USSD (Icon support)

27.22.4.12.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.2.2 Conformance requirement

27.22.4.12.2.3 Test purpose

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

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

27.22.4.12.2.4 Method of test

27.22.4.12.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and to the USS. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS

The elementary files are coded as Toolkit default.

27.22.4.12.2.4.2 Procedure

Expected Sequence 2.1A (SEND USSD, 7-bit data, successful, basic icon self explanatory, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 2.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 2.1.1 | [BASIC-ICON, self-explanatory] |
| 4 | ME → USER | Display BASIC ICON |  |
| 5 | ME → USS | REGISTER 2.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 2.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 2.1.1A | [Command performed successfully] |

PROACTIVE COMMAND: SEND USSD 2.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Basic Icon"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Icon Identifier:

Icon qualifier: icon is self-explanatory

Icon Identifier: record 1 in EF(IMG)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 54 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0A | 42 | 61 | 73 | 69 | 63 | 20 | 49 | 63 | 6F | 6E | 8A |
|  | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91 | 49 | E5 | 92 |
|  | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5 | 5E | B1 | 59 |
|  | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A | AD | 5E | B3 |
|  | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6 | 3B | 3E | AF |
|  | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E5 | 60 | 9E | 02 |
|  | 00 | 01 |  |  |  |  |  |  |  |  |  |  |

REGISTER 2.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 3D | 04 | 01 | F0 | 04 | 38 | 41 | E1 | 90 | 58 | 34 |
|  | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|  | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|  | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|  | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|  | C3 | E5 | 60 |  |  |  |  |  |  |  |  |  |

RELEASE COMPLETE (SS RETURN RESULT) 2.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 1E | 04 | 01 | F0 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|  | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|  | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 2.1.1A

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

Expected Sequence 2.1B (SEND USSD, 7-bit data, successful, basic icon self explanatory, requested icon could not be displayed)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 2.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 2.1.1 | [BASIC-ICON, self-explanatory] |
| 4 | ME → USER | Display "Basic Icon" without the icon |  |
| 5 | ME → USS | REGISTER 2.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 2.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 2.1.1B | [Command performed but requested icon could not be displayed] |

TERMINAL RESPONSE: SEND USSD 2.1.1B

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

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

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 04 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

Expected Sequence 2.2 (SEND USSD, 7-bit data, successful, colour icon self explanatory)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 2.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 2.2.1 | [COLOUR-ICON, self-explanatory] |
| 4 | ME → USER | Display COLOUR-ICON or May give information to user concerning what is happening |  |
| 5 | ME → USS | REGISTER 2.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 2.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 2.1.1A or TERMINAL RESPONSE: SEND USSD 2.1.1B | [Command performed successfully] or [Command performed but requested icon could not be displayed] |

PROACTIVE COMMAND: SEND USSD 2.2.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Color Icon"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Icon Identifier:

Icon qualifier: icon is self-explanatory

Icon Identifier: record 2 in EF(IMG)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 54 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0A | 43 | 6F | 6C | 6F | 72 | 20 | 49 | 63 | 6F | 6E | 8A |
|  | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91 | 49 | E5 | 92 |
|  | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5 | 5E | B1 | 59 |
|  | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A | AD | 5E | B3 |
|  | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6 | 3B | 3E | AF |
|  | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E5 | 60 | 9E | 02 |
|  | 00 | 02 |  |  |  |  |  |  |  |  |  |  |

Expected Sequence 2.3A (SEND USSD, 7-bit data, successful, basic icon non self-explanatory, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 2.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 2.3.1 | [BASIC-ICON, non self-explanatory] |
| 4 | ME → USER | Display "Basic Icon" and BASIC-ICON |  |
| 5 | ME → USS | REGISTER 2.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 2.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 2.1.1A | [Command performed successfully] |

PROACTIVE COMMAND: SEND USSD 2.3.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Basic Icon"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Icon Identifier

Icon qualifier: icon is non self-explanatory

Icon Identifier: record 1 in EF(IMG)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 54 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0A | 42 | 61 | 73 | 69 | 63 | 20 | 49 | 63 | 6F | 6E | 8A |
|  | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91 | 49 | E5 | 92 |
|  | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5 | 5E | B1 | 59 |
|  | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A | AD | 5E | B3 |
|  | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6 | 3B | 3E | AF |
|  | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E5 | 60 | 9E | 02 |
|  | 01 | 01 |  |  |  |  |  |  |  |  |  |  |

Expected Sequence 2.3B (SEND USSD, 7-bit data, successful, basic icon non self-explanatory, requested icon could not be displayed)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 2.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 2.3.1 | [BASIC-ICON, non self-explanatory] |
| 4 | ME → USER | Display "Basic Icon" without the icon |  |
| 5 | ME → USS | REGISTER 2.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 2.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 2.1.1B | [Command performed but requested icon could not be displayed] |

Expected Sequence 2.4 (SEND USSD, 7-bit data, basic icon non self-explanatory, no alpha identifier presented)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 2.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 2.4.1 | [BASIC-ICON, non self-explanatory] |
| 4 | ME → UICC | TERMINAL RESPONSE: SEND USSD 2.4.1 | [Command data not understood by ME] |

PROACTIVE COMMAND: SEND USSD 2.4.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

Icon Identifier

Icon qualifier: icon is non self-explanatory

Icon Identifier: record 1 in EF(IMG)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 48 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 8A |
|  | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91 | 49 | E5 | 92 |
|  | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5 | 5E | B1 | 59 |
|  | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A | AD | 5E | B3 |
|  | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6 | 3B | 3E | AF |
|  | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E5 | 60 | 9E | 02 |
|  | 01 | 01 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 2.4.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command data not understood by ME

Coding:

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

27.22.4.12.2.5 Test requirement

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

##### 27.22.4.12.3 SEND USSD (UCS2 display in Cyrillic)

27.22.4.12.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in: ISO/IEC 10646 [17].

27.22.4.12.3.3 Test purpose

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

27.22.4.12.3.4 Method of test

27.22.4.12.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.3.4.2 Procedure

Expected Sequence 3.1 (SEND USSD, 7-bit data, successful, UCS2 text in Cyrillic)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 3.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 3.1.1 |  |
| 4 | ME → USER | Display "ЗДРАВСТВУЙТЕ" | ["Hello" in Russian] |
| 5 | ME → USS | REGISTER 3.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 3.1 | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 3.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: SEND USSD 3.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)

Text: "ЗДРАВСТВУЙТЕ"

USSD String

Data coding scheme: 7-bit default, no message class

USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5F | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 19 | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 |
|  | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 |
|  | 04 | 15 | 8A | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91 |
|  | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5 |
|  | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A |
|  | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6 |
|  | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E5 |
|  | 60 |  |  |  |  |  |  |  |  |  |  |  |

REGISTER 3.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD String:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 3D | 04 | 01 | F0 | 04 | 38 | 41 | E1 | 90 | 58 | 34 |
|  | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|  | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|  | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|  | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|  | C3 | E5 | 60 |  |  |  |  |  |  |  |  |  |

RELEASE COMPLETE (SS RETURN RESULT) 3.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD String:

- "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 1E | 04 | 01 | F0 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|  | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|  | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 3.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

##### 27.22.4.12.4 SEND USSD (support of Text Attribute)

27.22.4.12.4.1 SEND USSD (support of Text Attribute – Left Alignment)

27.22.4.12.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.1.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.1.3 Test purpose

To verify that the ME displays the alpha identifier according to the left alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.1.4 Method of test

27.22.4.12.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.1.4.2 Procedure

Expected Sequence 4.1 (SEND USSD, 7-bit data, successful, with Text Attribute – Left Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.1.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with left alignment] |
| 5 | ME → USS | REGISTER 4.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.1.1 |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.1.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.1.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Alpha identifier is displayed without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/13, no alignment change will take place] |
| 12 | ME → USS | REGISTER 4.1 |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.1.1 |  |

PROACTIVE COMMAND: SEND USSD 4.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.1.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

REGISTER 4.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 30 | 3D | 04 | 01 | F0 | 04 | 40 | 41 | E1 | 90 | 58 | 34 |
|  | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|  | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|  | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|  | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|  | C3 | E5 | 60 |  |  |  |  |  |  |  |  |  |

RELEASE COMPLETE (SS RETURN RESULT) 4.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | 30 | 1E | 04 | 01 | F0 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|  | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|  | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 4.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.12.4.2 SEND USSD (support of Text Attribute – Center Alignment)

27.22.4.12.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.2.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.2.3 Test purpose

To verify that the ME displays the alpha identifier according to the center alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.2.4 Method of test

27.22.4.12.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.2.4.2 Procedure

Expected Sequence 4.2 (SEND USSD, 7-bit data, successful, with Text Attribute – Center Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.2.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with center alignment] |
| 5 | ME → USS | REGISTER 4.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.2.1 |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.2.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.2.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Alpha identifier is displayed without center alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/13, no alignment change will take place] |
| 12 | ME → USS | REGISTER 4.1 |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.2.1 |  |

PROACTIVE COMMAND: SEND USSD 4.2.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 01 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.2.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 4.2.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.12.4.3 SEND USSD (support of Text Attribute – Right Alignment)

27.22.4.12.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.3.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.3.3 Test purpose

To verify that the ME displays the alpha identifier according to the right alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.3.4 Method of test

27.22.4.12.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.3.4.2 Procedure

Expected Sequence 4.3 (SEND USSD, 7-bit data, successful, with Text Attribute – Right Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.3.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with right alignment] |
| 5 | ME → USS | REGISTER 4.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.3.1 |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.3.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.3.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Alpha identifier is displayed without right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/13, no alignment change will take place] |
| 12 | ME → USS | REGISTER 4.1 |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.3.1 |  |

PROACTIVE COMMAND: SEND USSD 4.3.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 02 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.3.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 4.3.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.12.4.4 SEND USSD (support of Text Attribute – Large Font Size)

27.22.4.12.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.4.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.4.3 Test purpose

To verify that the ME displays the alpha identifier according to the large font size text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.4.4 Method of test

27.22.4.12.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.4.4.2 Procedure

Expected Sequence 4.4 (SEND USSD, 7-bit data, successful, with Text Attribute – Large Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.4.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with large font size] |
| 5 | ME → USS | REGISTER 4.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.4.1 |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.4.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.4.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Alpha identifier is displayed with normal font size] |
| 12 | ME → USS | REGISTER 4.1 |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.4.1 |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.4.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.4.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with large font size] |
| 19 | ME → USS | REGISTER 4.1 |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.4.1 |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.4.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.4.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Alpha identifier is displayed with normal font size] |
| 26 | ME → USS | REGISTER 4.1 |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.4.1 |  |

PROACTIVE COMMAND: SEND USSD 4.4.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 04 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.4.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.4.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 4.4.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.12.4.5 SEND USSD (support of Text Attribute – Small Font Size)

27.22.4.12.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.5.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.5.3 Test purpose

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.5.4 Method of test

27.22.4.12.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.5.4.2 Procedure

Expected Sequence 4.5 (SEND USSD, 7-bit data, successful, with Text Attribute – Small Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.5.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.5.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with small font size] |
| 5 | ME → USS | REGISTER 4.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.5.1 |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.5.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.5.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Alpha identifier is displayed with normal font size] |
| 12 | ME → USS | REGISTER 4.1 |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.5.1 |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.5.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.5.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with small font size] |
| 19 | ME → USS | REGISTER 4.1 |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.5.1 |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.5.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.5.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Alpha identifier is displayed with normal font size] |
| 26 | ME → USS | REGISTER 4.1 |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.5.1 |  |

PROACTIVE COMMAND: SEND USSD 4.5.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 08 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.5.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.5.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 4.5.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.12.4.6 SEND USSD (support of Text Attribute – Bold On)

27.22.4.12.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.6.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.6.3 Test purpose

To verify that the ME displays the alpha identifier according to the bold text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.6.4 Method of test

27.22.4.12.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.6.4.2 Procedure

Expected Sequence 4.6 (SEND USSD, 7-bit data, successful, with Text Attribute – Bold On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.6.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.6.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with bold on] |
| 5 | ME → USS | REGISTER 4.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.6.1 |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.6.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.6.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Alpha identifier is displayed with bold off] |
| 12 | ME → USS | REGISTER 4.1 |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.6.1 |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.6.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.6.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with bold on] |
| 19 | ME → USS | REGISTER 4.1 |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.6.1 |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.6.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.6.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Alpha identifier is displayed with bold off] |
| 26 | ME → USS | REGISTER 4.1 |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.6.1 |  |

PROACTIVE COMMAND: SEND USSD 4.6.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 10 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.6.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.6.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 4.6.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.12.4.7 SEND USSD (support of Text Attribute – Italic On)

27.22.4.12.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.7.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.7.3 Test purpose

To verify that the ME displays the alpha identifier according to the italic text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.7.4 Method of test

27.22.4.12.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.7.4.2 Procedure

Expected Sequence 4.7 (SEND USSD, 7-bit data, successful, with Text Attribute – Italic On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.7.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.7.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with italic on] |
| 5 | ME → USS | REGISTER 4.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.7.1 |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.7.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.7.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Alpha identifier is displayed with italic off] |
| 12 | ME → USS | REGISTER 4.1 |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.7.1 |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.7.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.7.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with italic on] |
| 19 | ME → USS | REGISTER 4.1 |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.7.1 |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.7.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.7.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Alpha identifier is displayed with italic off] |
| 26 | ME → USS | REGISTER 4.1 |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.7.1 |  |

PROACTIVE COMMAND: SEND USSD 4.7.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 20 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.7.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.7.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 4.7.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.12.4.8 SEND USSD (support of Text Attribute – Underline On)

27.22.4.12.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.8.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.8.3 Test purpose

To verify that the ME displays the alpha identifier according to the underline text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.8.4 Method of test

27.22.4.12.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.8.4.2 Procedure

Expected Sequence 4.8 (SEND USSD, 7-bit data, successful, with Text Attribute – Underline On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.8.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.8.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with underline on] |
| 5 | ME → USS | REGISTER 4.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.8.1 |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.8.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.8.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Alpha identifier is displayed with underline off] |
| 12 | ME → USS | REGISTER 4.1 |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.8.1 |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.8.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.8.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with underline on] |
| 19 | ME → USS | REGISTER 4.1 |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.8.1 |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.8.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.8.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Alpha identifier is displayed with underline off] |
| 26 | ME → USS | REGISTER 4.1 |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.8.1 |  |

PROACTIVE COMMAND: SEND USSD 4.8.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 40 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.8.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.8.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 4.8.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.12.4.9 SEND USSD (support of Text Attribute – Strikethrough On)

27.22.4.12.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.9.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.9.3 Test purpose

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.9.4 Method of test

27.22.4.12.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.9.4.2 Procedure

Expected Sequence 4.9 (SEND USSD, 7-bit data, successful, with Text Attribute – Strikethrough On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.9.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.9.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with strikethrough on] |
| 5 | ME → USS | REGISTER 4.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.9.1 |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.9.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.9.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Alpha identifier is displayed with strikethrough off] |
| 12 | ME → USS | REGISTER 4.1 |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.9.1 |  |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.9.1 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.9.1 |  |
| 18 | ME → USER | Display "Text Attribute 1" | [Alpha identifier is displayed with strikethrough on] |
| 19 | ME → USS | REGISTER 4.1 |  |
| 20 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 21 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.9.1 |  |
| 22 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.9.3 |  |
| 23 | ME → UICC | FETCH |  |
| 24 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.9.3 |  |
| 25 | ME → USER | Display "Text Attribute 3" | [Alpha identifier is displayed with strikethrough off] |
| 26 | ME → USS | REGISTER 4.1 |  |
| 27 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 28 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.9.1 |  |

PROACTIVE COMMAND: SEND USSD 4.9.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 80 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.9.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.9.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 4.9.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.12.4.10 SEND USSD (support of Text Attribute – Foreground and Background Colour)

27.22.4.12.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.10.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

27.22.4.12.4.10.3 Test purpose

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.4.10.4 Method of test

27.22.4.12.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.4.10.4.2 Procedure

Expected Sequence 4.10 (SEND USSD, 7-bit data, successful, with Text Attribute – Foreground and Background Colour)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.10.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.10.1 |  |
| 4 | ME → USER | Display "Text Attribute 1" | [Message shall be formatted with foreground and background colour according to text attribute configuration] |
| 5 | ME → USS | REGISTER 4.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.10.1 |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 4.10.2 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: SEND USSD 4.10.2 |  |
| 11 | ME → USER | Display "Text Attribute 2" | [Message shall be formatted with ME's default foreground and background colour] |
| 12 | ME → USS | REGISTER 4.1 |  |
| 13 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 4.1 | ["USSD string received from SS"] |
| 14 | ME → UICC | TERMINAL RESPONSE: SEND USSD 4.10.1 |  |

PROACTIVE COMMAND: SEND USSD 4.10.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |  |  |

PROACTIVE COMMAND: SEND USSD 4.10.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|  | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|  | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|  | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|  | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|  | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|  | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 4.10.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

##### 27.22.4.12.5 SEND USSD (UCS2 display in Chinese)

27.22.4.12.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in: ISO/IEC 10646 [17].

27.22.4.12.5.3 Test purpose

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

27.22.4.12.5.4 Method of test

27.22.4.12.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.5.4.2 Procedure

Expected Sequence 5.1 (SEND USSD, 7-bit data, successful, UCS2 text in Chinese)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 5.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 5.1.1 |  |
| 4 | ME → USER | Display "你好" | ["Hello" in Chinese] |
| 5 | ME → USS | REGISTER 5.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 5.1 | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: SEND USSD 5.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)

Text: "你好"

USSD String

Data coding scheme: 7-bit default, no message class

USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4B | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 05 | 80 | 4F | 60 | 59 | 7D | 8A | 39 | F0 | 41 | E1 | 90 |
|  | 58 | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 |
|  | E9 | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 |
|  | CB | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E |
|  | 9F | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A |
|  | CD | 76 | C3 | E5 | 60 |  |  |  |  |  |  |  |

REGISTER 5.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD String:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 30 | 3D | 04 | 01 | F0 | 04 | 38 | 41 | E1 | 90 | 58 | 34 |
|  | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|  | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|  | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|  | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|  | C3 | E5 | 60 |  |  |  |  |  |  |  |  |  |

RELEASE COMPLETE (SS RETURN RESULT) 5.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD String:

- "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 30 | 1E | 04 | 01 | 00 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|  | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|  | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 5.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

##### 27.22.4.12.6 SEND USSD (UCS2 display in Katakana)

27.22.4.12.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in: ISO/IEC 10646 [17].

27.22.4.12.6.3 Test purpose

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

27.22.4.12.6.4 Method of test

27.22.4.12.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.6.4.2 Procedure

Expected Sequence 6.1 (SEND USSD, 7-bit data, successful, UCS2 text in Katakana)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 6.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SEND USSD 6.1.1 |  |
| 4 | ME → USER | Display "ル" | [Character " in Katakana] |
| 5 | ME → USS | REGISTER 6.1 |  |
| 6 | USS → ME | RELEASE COMPLETE (SS RETURN RESULT) 6.1 | [Successful] |
| 7 | ME → UICC | TERMINAL RESPONSE: SEND USSD 6.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: SEND USSD 6.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)

Text: "ル"

USSD String

Data coding scheme: 7-bit default, no message class

USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 49 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 03 | 80 | 30 | EB | 8A | 39 | F0 | 41 | E1 | 90 | 58 | 34 |
|  | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|  | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|  | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|  | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|  | C3 | E5 | 60 |  |  |  |  |  |  |  |  |  |

REGISTER 6.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD String:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 30 | 3D | 04 | 01 | F0 | 04 | 38 | 41 | E1 | 90 | 58 | 34 |
|  | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|  | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|  | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|  | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|  | C3 | E5 | 60 |  |  |  |  |  |  |  |  |  |

RELEASE COMPLETE (SS RETURN RESULT) 6.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD String:

- "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 30 | 1E | 04 | 01 | 00 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|  | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|  | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

TERMINAL RESPONSE: SEND USSD 6.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|  | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|  | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|  | 32 | CB | DF | 6D | D0 | 74 | 0A |  |  |  |  |

27.22.4.12.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

#### 27.22.4.13 SET UP CALL

##### 27.22.4.13.1 SET UP CALL (normal)

27.22.4.13.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.1.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

27.22.4.13.1.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.1.4 Method of test

27.22.4.13.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default, with the following exceptions for sequence 1.1 only:

- The Outgoing Call Information (OCI and OCT) service is available in the USIM Service Table.

- EFOCI (Outgoing Call Information) is present with the following content:

Logically: Invalid

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Byte: | B01 | … | B41 | B42 | B43 | B44 | B45 | B46 | B47 |
| Coding: | FF | … | FF | 00 | 00 | 00 | 01 | FF | FF |

- EFOCT (Outgoing Call Timer) is present with the following content:

Logically: Accumulated call timer value: 0

|  |  |  |  |
| --- | --- | --- | --- |
| Byte: | B01 | B02 | B03 |
| Coding: | 00 | 00 | 00 |

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.1.4.2 Procedure

Expected Sequence 1.1 (SET UP CALL, call confirmed by the user and connected)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.1.1 |  |
| 4 | ME → USER | ME displays "Not busy" during user confirmation phase. |  |
| 5 | USER → ME | The user confirms the call set up | [user confirmation] |
| 6 | ME  USS | The ME attempts to set up a call to "+012340123456" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 1.1.1 | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns to idle mode. |  |
| 10 | ME 🡪 UICC | The ME shall not have updated EF OCI or EF OCT with the call set-up details. |  |

PROACTIVE COMMAND: SET UP CALL 1.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Not busy"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 1E | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 08 | 4E | 6F | 74 | 20 | 62 | 75 | 73 | 79 | 86 | 09 | 91 |
|  | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C |  |  |  |  |

TERMINAL RESPONSE: SET UP CALL 1.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 1.2 (SET UP CALL, call rejected by the user)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.1.1 |  |
| 4 | ME → USER | ME displays "Not busy" during the user confirmation phase |  |
| 5 | USER → ME | The user rejects the set up call | [user rejects the call] |
| 6 | ME → UICC | TERMINAL RESPONSE 1.2.1 | [User did not accept call set-up request] |
| 7 | ME  USER | The ME returns in idle mode. |  |

TERMINAL RESPONSE: SET UP CALL 1.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: User did not accept the proactive command

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 22 |

Expected Sequence 1.3 void

Expected Sequence 1.4 (SET UP CALL, putting all other calls on hold, ME busy)

ME is busy on a call

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.4.1 | [putting all other calls on hold] |
| 4 | ME → USER | ME displays "On hold" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirms the call] |
| 6 | ME  USS | The active call is put on hold |  |
| 7 | MEUSS | The ME attempts to set up a call to "+012340123456" |  |
| 8 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 9 | ME → UICC | TERMINAL RESPONSE 1.4.1 | [Command performed successfully] |
| 10 | USER → ME | The user ends the call after 10 s. The ME retrieves the previous call automatically or on request of the user. |  |

PROACTIVE COMMAND: SET UP CALL 1.4.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: putting all other calls on hold

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "On hold"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 10 | 02 | 82 | 02 | 81 | 83 | 85 |
|  | 07 | 4F | 6E | 20 | 68 | 6F | 6C | 64 | 86 | 09 | 91 | 10 |
|  | 32 | 04 | 21 | 43 | 65 | 1C | 2C |  |  |  |  |  |

TERMINAL RESPONSE: SET UP CALL 1.4.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: putting all other calls on hold

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 1.5 (SET UP CALL, disconnecting all other calls, ME busy)

ME is busy on a call

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.5.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.5.1 | [disconnecting all other calls] |
| 4 | ME → USER | ME displays "Disconnect" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirms the call] |
| 6 | ME  USS | The ME disconnects the active call |  |
| 7 | MEUSS | The ME attempts to set up a call to "+012340123456" |  |
| 8 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 9 | ME → UICC | TERMINAL RESPONSE 1.5.1 | [Command performed successfully] |
| 10 | USER → ME | The user ends the call after 10 s. |  |

PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: disconnecting all other calls

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Disconnect"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 10 | 04 | 82 | 02 | 81 | 83 | 85 |
|  | 0A | 44 | 69 | 73 | 63 | 6F | 6E | 6E | 65 | 63 | 74 | 86 |
|  | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C |  |  |

TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: putting all other calls on hold

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 1.6 (SET UP CALL, only if not currently busy on another call, ME busy)

ME is busy on a call

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.1.1 | [only if not currently busy on another call] |
| 4 | ME → UICC | TERMINAL RESPONSE 1.6.1 | [ME currently unable to process command] |

TERMINAL RESPONSE: SET UP CALL 1.6.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: ME currently unable to process command

Additional Information: ME currently busy on call

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 02 | 20 |
|  | 02 |  |  |  |  |  |  |  |  |  |  |  |

Expected Sequence 1.7 (SET UP CALL, putting all other calls on hold, call hold is not allowed)

ME is busy on a call. The USS shall be configured to not allow Call Hold.

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.4.1 | [putting all other calls on hold] |
| 4 | ME → USER | ME displays "On hold" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirms the call] |
| 6 | ME → USS | The ME attempts to put the active call on hold. |  |
| 7 | USS->ME | The ME receives the HOLD REJECT message from the USS. | [USS sends "Facility Rejected" as cause value] |
| 8 | ME → UICC | TERMINAL RESPONSE 1.7.1A  OR  TERMINAL RESPONSE 1.7.1B | [Network currently unable to process command]  [Option A shall apply only from R99 to Rel-6, whereas option B is applicable in all releases] |

TERMINAL RESPONSE: SET UP CALL 1.7.1A

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: putting all other calls on hold

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Network currently unable to process command

Additional Information: No specific cause can be given

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 10 | 02 | 82 | 02 | 82 | 81 | 83 | 02 | 21 |
|  | 00 |  |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SET UP CALL 1.7.1B

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: putting all other calls on hold

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Network currently unable to process command

Additional Information: Facility Rejected

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 10 | 02 | 82 | 02 | 82 | 81 | 83 | 02 | 21 |
|  | 9D |  |  |  |  |  |  |  |  |  |  |  |

Expected Sequence 1.8 (SET UP CALL, Capability configuration)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.8.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.8.1 | [Capability configuration parameters: full rate support] |
| 4 | ME → USER | ME displays "Capability config" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456" using the capability configuration parameters supplied by UICC |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 1.8.1 | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 1.8.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: if not busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Capability config"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Capability configuration parameters

Information transfer cap: full rate support only MS

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2B | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 11 | 43 | 61 | 70 | 61 | 62 | 69 | 6C | 69 | 74 | 79 | 20 |
|  | 63 | 6F | 6E | 66 | 69 | 67 | 86 | 09 | 91 | 10 | 32 | 04 |
|  | 21 | 43 | 65 | 1C | 2C | 87 | 02 | 01 | A0 |  |  |  |

TERMINAL RESPONSE: SET UP CALL 1.8.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: if not busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.9.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND SET UP CALL 1.9.1 | [dialling number string, no alpha identifier] |
| 4 | USER → ME | The user confirms the set up call | [user confirmation] |
| 5 | MEUSS | The ME attempts to set up a call to "+01234567890123456789012345678901" |  |
| 6 | USS → ME | The ME receives the CONNECT message from the USS. |  |
| 7 | ME → UICC | TERMINAL RESPONSE 1.9.1 | [Command performed successfully] |
| 8 | USER → ME | The user ends the call The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 1.9.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call with redial

Device identities

Source device: UICC

Destination device: Network

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string: "01234567890123456789012345678901"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 81 | 83 | 86 |
|  | 11 | 91 | 10 | 32 | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 |
|  | 10 | 32 | 54 | 76 | 98 | 10 |  |  |  |  |  |  |

TERMINAL RESPONSE: SET UP CALL 1.9.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call with redial

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 1.10 (SET UP CALL,256 octets length, long first alpha identifier)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.10.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.10.1 | [ alpha identifier] |
| 4 | ME → USER | ME displays "Three types are defined: - set up a call, but only if not currently busy on another call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, " during the user confirmation phase. |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | MEUSS | The ME attempts to set up a call to "+01" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. |  |
| 8 | ME → UICC | TERMINAL RESPONSE 1.10.1 | [Command performed successfully] |
| 9 | USER → ME | The user ends the call The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 1.10.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call with redial

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Three types are defined: - set up a call, but only if not currently busy on another call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, "

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string: "01"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 81 | FD | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 81 | 83 |
|  | 85 | 81 | ED | 54 | 68 | 72 | 65 | 65 | 20 | 74 | 79 | 70 |
|  | 65 | 73 | 20 | 61 | 72 | 65 | 20 | 64 | 65 | 66 | 69 | 6E |
|  | 65 | 64 | 3A | 20 | 2D | 20 | 73 | 65 | 74 | 20 | 75 | 70 |
|  | 20 | 61 | 20 | 63 | 61 | 6C | 6C | 2C | 20 | 62 | 75 | 74 |
|  | 20 | 6F | 6E | 6C | 79 | 20 | 69 | 66 | 20 | 6E | 6F | 74 |
|  | 20 | 63 | 75 | 72 | 72 | 65 | 6E | 74 | 6C | 79 | 20 | 62 |
|  | 75 | 73 | 79 | 20 | 6F | 6E | 20 | 61 | 6E | 6F | 74 | 68 |
|  | 65 | 72 | 20 | 63 | 61 | 6C | 6C | 3B | 20 | 2D | 20 | 73 |
|  | 65 | 74 | 20 | 75 | 70 | 20 | 61 | 20 | 63 | 61 | 6C | 6C |
|  | 2C | 20 | 70 | 75 | 74 | 74 | 69 | 6E | 67 | 20 | 61 | 6C |
|  | 6C | 20 | 6F | 74 | 68 | 65 | 72 | 20 | 63 | 61 | 6C | 6C |
|  | 73 | 20 | 28 | 69 | 66 | 20 | 61 | 6E | 79 | 29 | 20 | 6F |
|  | 6E | 20 | 68 | 6F | 6C | 64 | 3B | 20 | 2D | 20 | 73 | 65 |
|  | 74 | 20 | 75 | 70 | 20 | 61 | 20 | 63 | 61 | 6C | 6C | 2C |
|  | 20 | 64 | 69 | 73 | 63 | 6F | 6E | 6E | 65 | 63 | 74 | 69 |
|  | 6E | 67 | 20 | 61 | 6C | 6C | 20 | 6F | 74 | 68 | 65 | 72 |
|  | 20 | 63 | 61 | 6C | 6C | 73 | 20 | 28 | 69 | 66 | 20 | 61 |
|  | 6E | 79 | 29 | 20 | 66 | 69 | 72 | 73 | 74 | 2E | 20 | 46 |
|  | 6F | 72 | 20 | 65 | 61 | 63 | 68 | 20 | 6F | 66 | 20 | 74 |
|  | 68 | 65 | 73 | 65 | 20 | 74 | 79 | 70 | 65 | 73 | 2C | 20 |
|  | 86 | 02 | 91 | 10 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SET UP CALL 1.10.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call with redial

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.11.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → 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USS | The ME attempts to set up a call to "+012340123456" with the called party subaddress information |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 1.11.1A | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s 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 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.11.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.11.1 | [set up a call with called party subaddress] |
| 4 | ME → UICC | TERMINAL RESPONSE 1.11.1B | [beyond ME's capabilities] |

PROACTIVE COMMAND: SET UP CALL 1.11.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: if not busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Called party"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string: "012340123456p1p2"

Called party subaddress

Type of subaddress: NSAP (X.213 / ISO 8348 AD2)

Odd / even indicator: even number of address signals

Subaddress information: AFI, 95, 95, 95, 95, 95

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2B | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0C | 43 | 61 | 6C | 6C | 65 | 64 | 20 | 70 | 61 | 72 | 74 |
|  | 79 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C |
|  | 88 | 07 | 80 | 50 | 95 | 95 | 95 | 95 | 95 |  |  |  |

TERMINAL RESPONSE: SET UP CALL 1.11.1A

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: if not busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: SET UP CALL 1.11.1B

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: if not busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Beyond ME's capabilities

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 30 |

Expected Sequence 1.12 (SET UP CALL, maximum duration for the redial mechanism)

The USS shall be configured such that call set up requests will be rejected with cause "User Busy".

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.12.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.12.1 | [only if not currently busy on another call with redial] |
| 4 | ME → USER | ME displays "Duration" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirms the call] |
| 6 | ME  USS | ME attempts to set up a call to "+012340123456" . It stops its attempts after 10 seconds. | [redial mechanism with maximum duration of 10 seconds]] |
| 7 | ME → UICC | TERMINAL RESPONSE 1.12.1 | [network currently unable to process command] |
| 8 | ME  USER | The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 1.12.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call with redial

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Duration"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string: "012340123456p1p2"

Duration

Unit: Seconds

Interval: 10

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 81 | 83 | 85 |
|  | 08 | 44 | 75 | 72 | 61 | 74 | 69 | 6F | 6E | 86 | 09 | 91 |
|  | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C | 84 | 02 | 01 | 0A |

TERMINAL RESPONSE: SET UP CALL 1.12.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call with redial

Device identities

Source device: ME

Destination device: UICC

Result

General Result: network currently unable to process command

Additional Information: User Busy

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 82 | 81 | 83 | 02 | 21 |
|  | 91 |  |  |  |  |  |  |  |  |  |  |  |

27.22.4.13.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.12.

##### 27.22.4.13.2 SET UP CALL (second alpha identifier)

27.22.4.13.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.2.2 Conformance requirement

Same as clause 27.22.4.13.2.1.

27.22.4.13.2.3 Test purpose

To verify that the ME accepts a Proactive Command - Set Up Call, displays the alpha identifiers to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.2.4 Method of test

27.22.4.13.2.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and is in updated idle mode on the USS.

27.22.4.13.2.4.2 Procedure

Expected Sequence 2.1 (SET UP CALL, two alpha identifiers)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 2.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 2.1.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL" | [second alpha identifier] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 2.1.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 2.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 28 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0C | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C |
|  | 85 | 04 | 43 | 41 | 4C | 4C |  |  |  |  |  |  |

TERMINAL RESPONSE: SET UP CALL 2.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

##### 27.22.4.13.3 SET UP CALL (display of icons)

27.22.4.13.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.3.2 Conformance requirement

27.22.4.13.3.3 Test purpose

To verify that the ME accepts a Proactive Set Up Call , displays the message or icon to the user ,attempts to set up a call to the address, returns the result in the TERMINAL response.

27.22.4.13.3.4 Method of test

27.22.4.13.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and is in updated idle mode on the USS.

27.22.4.13.3.4.2 Procedure

Expected Sequence 3.1A (SET UP CALL, display of basic icon during confirmation phase, not self-explanatory, successful )

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 3.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.1.1 | Including icon identifier, icon shall be displayed in addition of the first alpha identifier |
| 4 | ME → USER | ME displays "Set up call Icon 3.1.1" and the basic icon during a user confirmation phase. |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | MEUSS | The ME attempts to set up a call to "+012340123456" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 3.1.1A | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 3.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Set up call Icon 3.1.1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is not self-explanatory

Icon identifier: <record 1 in EF IMG>

Coding:

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

TERMINAL RESPONSE: SET UP CALL 3.1.1A

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 3.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.1.1 | Including icon identifier, icon shall be displayed in addition of the first alpha identifier |
| 4 | ME → USER | ME displays "Set up call Icon 3.1.1" without the basic icon during a user confirmation phase. |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | MEUSS | The ME attempts to set up a call to "+012340123456" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 3.1.1B | [Command performed successfully, but requested icon could not be displayed]. |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

TERMINAL RESPONSE: SET UP CALL 3.1.1B

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

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

Coding:

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

Expected Sequence 3.2A (SET UP CALL, display of basic icon during confirmation phase, self-explanatory, successful )

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 3.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.2.1 | Including icon identifier, icon shall be displayed instead of the first alpha identifier |
| 4 | ME → USER | ME displays the basic icon during a user confirmation phase. |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 3.2.1A | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 3.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Set up call Icon 3.2.1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is self-explanatory

Icon identifier: <record 1 in EF IMG>

Coding:

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

TERMINAL RESPONSE: SET UP CALL 3.2.1A

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 3.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.2.1 | Including icon identifier, icon shall be displayed instead of the first alpha identifier |
| 4 | ME → USER | ME display "Set up call Icon 3.2.1" without the icon |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | MEUSS | The ME attempts to set up a call to "+012340123456" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 3.2.1B | [Command performed successfully, but requested icon could not be displayed]. |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

TERMINAL RESPONSE: SET UP CALL 3.2.1B

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

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

Coding:

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 3.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.3.1 | Including icon identifier, icon shall be displayed in addition of the first alpha identifier |
| 4 | ME → USER | ME displays "Set up call Icon 3.3.1" and the colour icon during a user confirmation phase. |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | MEUSS | The ME attempts to set up a call to "+012340123456" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 3.3.1A | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 3.3.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Set up call Icon 3.3.1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is not self-explanatory

Icon identifier: <record 2 in EF IMG>

Coding:

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

TERMINAL RESPONSE: SET UP CALL 3.3.1A

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 3.3B (SET UP CALL, display of colour icon during confirmation phase, not self‑explanatory, requested icon could not be displayed)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 3.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.3.1 | Including icon identifier, icon shall be displayed in addition of the first alpha identifier |
| 4 | ME → USER | ME only display alpha string: " Set up call Icon 3.3.1" |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 3.3.1B | [Command performed successfully, but requested icon could not be displayed]. |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

TERMINAL RESPONSE: SET UP CALL 3.3.1B

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

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

Coding:

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 3.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.4.1 | Including a second alpha identifier and two icons |
| 4 | ME → USER | ME displays the basic icon during a user confirmation phase. |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | MEUSS | The ME attempts to set up a call to "+012340123456". The ME displays the basic icon without the text during the set up call. |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 3.4.1A | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 3.4.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Set up call Icon 3.4.1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is self-explanatory

Icon identifier: <record 1 in EF IMG>

Alpha identifier: "Set up call Icon 3.4.2"

Icon identifier

Icon qualifier: icon is self-explanatory

Icon identifier: <record 1 in EF IMG>

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 16 | 53 | 65 | 74 | 20 | 75 | 70 | 20 | 63 | 61 | 6C | 6C |
|  | 20 | 49 | 63 | 6F | 6E | 20 | 33 | 2E | 34 | 2E | 31 | 86 |
|  | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C | 9E | 02 |
|  | 00 | 01 | 85 | 16 | 53 | 65 | 74 | 20 | 75 | 70 | 20 | 63 |
|  | 61 | 6C | 6C | 20 | 49 | 63 | 6F | 6E | 20 | 33 | 2E | 34 |
|  | 2E | 32 | 9E | 02 | 00 | 01 |  |  |  |  |  |  |

TERMINAL RESPONSE: SET UP CALL 3.4.1A

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 3.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.4.1 | Including a second alpha identifier and two icons |
| 4 | ME → USER | ME displays "Set up call Icon 3.4.1" without the icon |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "Set up call Icon 3.4.2" without the icon during the set up call. |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 3.4.1B | [Command performed successfully, but requested icon could not be displayed]. |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

TERMINAL RESPONSE: SET UP CALL 3.4.1B

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

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

Coding:

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

27.22.4.13.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1A to 3.4B.

##### 27.22.4.13.4 SET UP CALL (support of Text Attribute)

27.22.4.13.4.1 SET UP CALL (support of Text Attribute – Left Alignment)

27.22.4.13.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.1.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the left alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.1.4 Method of test

27.22.4.13.4.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.1.4.2 Procedure

Expected Sequence 4.1 (SET UP CALL, Text Attribute – Left Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.1.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation is displayed with left alignment] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with left alignment] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 4.1.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.1.2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.1.2 |  |
| 13 | ME → USER | ME displays "CONFIRMATION 2" during the user confirmation phase |  |
| 14 | USER → ME | The user confirms the set up call | [User confirmation shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/14, no alignment change will take place] |
| 15 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" | [Second alpha identifier shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/14, no alignment change will take place] |
| 16 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 17 | ME → UICC | TERMINAL RESPONSE 4.1.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 18 | USER → ME | The user ends the call after 18 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 4.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|  | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.1.2

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 |  |  |

TERMINAL RESPONSE: SET UP CALL 4.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.13.4.2 SET UP CALL (support of Text Attribute – Center Alignment)

27.22.4.13.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.2.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the center alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.2.4 Method of test

27.22.4.13.4.2.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.2.4.2 Procedure

Expected Sequence 4.2 (SET UP CALL, Text Attribute – Center Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.2.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation is displayed with center alignment] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with center alignment] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 4.2.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.2.2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.2.2 |  |
| 13 | ME → USER | ME displays "CONFIRMATION 2" during the user confirmation phase |  |
| 14 | USER → ME | The user confirms the set up call | [User confirmation shall be formatted without center alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/14, no alignment change will take place] |
| 15 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" | [Second alpha identifier shall be formatted without centert alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/14, no alignment change will take place] |
| 16 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 17 | ME → UICC | TERMINAL RESPONSE 4.2.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 18 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 4.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|  | 00 | 0E | 01 | B4 | D0 | 04 | 00 | 06 | 01 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.2.2

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 |  |  |

TERMINAL RESPONSE: SET UP CALL 4.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.13.4.3 SET UP CALL (support of Text Attribute – Right Alignment)

27.22.4.13.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.3.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the right alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.3.4 Method of test

27.22.4.13.4.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.3.4.2 Procedure

Expected Sequence 4.3 (SET UP CALL, Text Attribute – Right Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.3.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation is displayed with right alignment] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with right alignment] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 4.3.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.3.2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.3.2 |  |
| 13 | ME → USER | ME displays "CONFIRMATION 2" during the user confirmation phase |  |
| 14 | USER → ME | The user confirms the set up call | [User confirmation shall be formatted without right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/14, no alignment change will take place] |
| 15 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" | [Second alpha identifier shall be formatted without right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/14, no alignment change will take place] |
| 16 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 17 | ME → UICC | TERMINAL RESPONSE 4.3.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 18 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 4.3.1

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|  | 00 | 0E | 02 | B4 | D0 | 04 | 00 | 06 | 02 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.3.2

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 |  |  |

TERMINAL RESPONSE: SET UP CALL 4.3.1

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: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.13.4.4 SET UP CALL (support of Text Attribute – Large Font Size)

27.22.4.13.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.4.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the large font size text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.4.4 Method of test

27.22.4.13.4.4.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.4.4.2 Procedure

Expected Sequence 4.4 (SET UP CALL, Text Attribute – Large Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.4.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation is displayed with large font size] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with large font size] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.4.2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.4.2 |  |
| 13 | ME → USER | ME displays "CONFIRMATION 2" during the user confirmation phase |  |
| 14 | USER → ME | The user confirms the set up call | [user confirmation is displayed with normal font size] |
| 15 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" | [second alpha identifier is displayed with normal font size] |
| 16 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 17 | ME → UICC | TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 18 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 19 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.4.1 |  |
| 20 | ME → UICC | FETCH |  |
| 21 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.4.1 |  |
| 22 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 23 | USER → ME | The user confirms the set up call | [user confirmation is displayed with large font size] |
| 24 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with large font size] |
| 25 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 26 | ME → UICC | TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 27 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 28 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.4.3 |  |
| 29 | ME → UICC | FETCH |  |
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.4.3 |  |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase |  |
| 32 | USER → ME | The user confirms the set up call | [user confirmation is displayed with normal font size] |
| 33 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3" | [second alpha identifier is displayed with normal font size] |
| 34 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 36 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 4.4.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|  | 00 | 0E | 04 | B4 | D0 | 04 | 00 | 06 | 04 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.4.2

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04 |
|  | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.4.3

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 3"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |  |  |

TERMINAL RESPONSE: SET UP CALL 4.4.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.13.4.5 SET UP CALL (support of Text Attribute – Small Font Size)

27.22.4.13.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.5.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the small font size text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.4.5 Method of test

27.22.4.13.4.4.5.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.4.5.2 Procedure

Expected Sequence 4.5 (SET UP CALL, Text Attribute – Small Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.5.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.5.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation is displayed with small font size] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with small font size] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.5.2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.5.2 |  |
| 13 | ME → USER | ME displays "CONFIRMATION 2" during the user confirmation phase |  |
| 14 | USER → ME | The user confirms the set up call | [user confirmation is displayed with normal font size] |
| 15 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" | [second alpha identifier is displayed with normal font size] |
| 16 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 17 | ME → UICC | TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 18 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 19 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.5.1 |  |
| 20 | ME → UICC | FETCH |  |
| 21 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.5.1 |  |
| 22 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 23 | USER → ME | The user confirms the set up call | [user confirmation is displayed with small font size] |
| 24 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with small font size] |
| 25 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 26 | ME → UICC | TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 27 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 28 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.5.3 |  |
| 29 | ME → UICC | FETCH |  |
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.5.3 |  |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase |  |
| 32 | USER → ME | The user confirms the set up call | [user confirmation is displayed with normal font size] |
| 33 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3" | [second alpha identifier is displayed with normal font size] |
| 34 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 36 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 4.5.1

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|  | 00 | 0E | 08 | B4 | D0 | 04 | 00 | 06 | 08 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.5.2

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04 |
|  | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.5.3

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 3"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |  |  |

TERMINAL RESPONSE: SET UP CALL 4.5.1

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: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.13.4.6 SET UP CALL (support of Text Attribute – Bold On)

27.22.4.13.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.6.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the bold text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.6.4 Method of test

27.22.4.13.4.6.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.6.4.2 Procedure

Expected Sequence 4.6 (SET UP CALL, Text Attribute – Bold On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.6.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation is displayed with bold on] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with bold on] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.6.2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.6.2 |  |
| 13 | ME → USER | ME displays "CONFIRMATION 2" during the user confirmation phase |  |
| 14 | USER → ME | The user confirms the set up call | [user confirmation is displayed with bold off] |
| 15 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" | [second alpha identifier is displayed with bold off] |
| 16 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 17 | ME → UICC | TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 18 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 19 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1 |  |
| 20 | ME → UICC | FETCH |  |
| 21 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.6.1 |  |
| 22 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 23 | USER → ME | The user confirms the set up call | [user confirmation is displayed with bold on] |
| 24 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with bold on] |
| 25 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 26 | ME → UICC | TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 27 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 28 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 |  |
| 29 | ME → UICC | FETCH |  |
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.6.3 |  |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase |  |
| 32 | USER → ME | The user confirms the set up call | [user confirmation is displayed with bold off] |
| 33 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3" | [second alpha identifier is displayed with bold off] |
| 34 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 36 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 4.6.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|  | 00 | 0E | 10 | B4 | D0 | 04 | 00 | 06 | 10 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.6.2

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04 |
|  | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.6.3

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 3"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |  |  |

TERMINAL RESPONSE: SET UP CALL 4.6.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.13.4.7 SET UP CALL (support of Text Attribute – Italic On)

27.22.4.13.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.7.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the italic text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.7.4 Method of test

27.22.4.13.4.7.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.7.4.2 Procedure

Expected Sequence 4.7 (SET UP CALL, Text Attribute – Italic On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.7.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.7.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation is displayed with italic on] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with italic on] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.7.2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.7.2 |  |
| 13 | ME → USER | ME displays "CONFIRMATION 2" during the user confirmation phase |  |
| 14 | USER → ME | The user confirms the set up call | [user confirmation is displayed with italic off] |
| 15 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" | [second alpha identifier is displayed with italic off] |
| 16 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 17 | ME → UICC | TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 18 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 19 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.7.1 |  |
| 20 | ME → UICC | FETCH |  |
| 21 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.7.1 |  |
| 22 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 23 | USER → ME | The user confirms the set up call | [user confirmation is displayed with italic on] |
| 24 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with italic on] |
| 25 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 26 | ME → UICC | TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 27 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 28 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.7.3 |  |
| 29 | ME → UICC | FETCH |  |
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.7.3 |  |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase |  |
| 32 | USER → ME | The user confirms the set up call | [user confirmation is displayed with italic off] |
| 33 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3" | [second alpha identifier is displayed with italic off] |
| 34 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 36 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 4.7.1

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|  | 00 | 0E | 20 | B4 | D0 | 04 | 00 | 06 | 20 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.7.2

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04 |
|  | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.7.3

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 3"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |  |  |

TERMINAL RESPONSE: SET UP CALL 4.7.1

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: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.13.4.8 SET UP CALL (support of Text Attribute – Underline On)

27.22.4.13.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.8.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the underline text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.8.4 Method of test

27.22.4.13.4.8.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.8.4.2 Procedure

Expected Sequence 4.8 (SET UP CALL, Text Attribute – Underline On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.8.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.8.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation is displayed with underline on] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with underline on] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.8.2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.8.2 |  |
| 13 | ME → USER | ME displays "CONFIRMATION 2" during the user confirmation phase |  |
| 14 | USER → ME | The user confirms the set up call | [user confirmation is displayed with underline off] |
| 15 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" | [second alpha identifier is displayed with underline off] |
| 16 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 17 | ME → UICC | TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 18 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 19 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.8.1 |  |
| 20 | ME → UICC | FETCH |  |
| 21 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.8.1 |  |
| 22 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 23 | USER → ME | The user confirms the set up call | [user confirmation is displayed with underline on] |
| 24 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with underline on] |
| 25 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 26 | ME → UICC | TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 27 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 28 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.8.3 |  |
| 29 | ME → UICC | FETCH |  |
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.8.3 |  |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase |  |
| 32 | USER → ME | The user confirms the set up call | [user confirmation is displayed with underline off] |
| 33 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3" | [second alpha identifier is displayed with Undeline off] |
| 34 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 36 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 4.8.1

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|  | 00 | 0E | 40 | B4 | D0 | 04 | 00 | 06 | 40 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.8.2

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04 |
|  | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.8.3

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 3"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |  |  |

TERMINAL RESPONSE: SET UP CALL 4.8.1

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: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.13.4.9 SET UP CALL (support of Text Attribute – Strikethrough On)

27.22.4.13.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.9.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the strikethrough text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.9.4 Method of test

27.22.4.13.4.9.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.9.4.2 Procedure

Expected Sequence 4.9 (SET UP CALL, Text Attribute – Strikethrough On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.9.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.9.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation is displayed with strikethrough on] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with strikethrough on] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.9.2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.9.2 |  |
| 13 | ME → USER | ME displays "CONFIRMATION 2" during the user confirmation phase |  |
| 14 | USER → ME | The user confirms the set up call | [user confirmation is displayed with strikethrough off] |
| 15 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" | [second alpha identifier is displayed with strikethrough off] |
| 16 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 17 | ME → UICC | TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 18 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 19 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.9.1 |  |
| 20 | ME → UICC | FETCH |  |
| 21 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.9.1 |  |
| 22 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 23 | USER → ME | The user confirms the set up call | [user confirmation is displayed with strikethrough on] |
| 24 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with strikethrough on] |
| 25 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 26 | ME → UICC | TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 27 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 28 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.9.3 |  |
| 29 | ME → UICC | FETCH |  |
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.9.3 |  |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase |  |
| 32 | USER → ME | The user confirms the set up call | [user confirmation is displayed with strikethrough off] |
| 33 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 3" | [second alpha identifier is displayed with strikethrough off] |
| 34 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.9.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 36 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 4.9.1

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|  | 00 | 0E | 80 | B4 | D0 | 04 | 00 | 06 | 80 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.9.2

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04 |
|  | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |  |  |

PROACTIVE COMMAND: SET UP CALL 4.9.3

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 3"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |  |  |

TERMINAL RESPONSE: SET UP CALL 4.9.1

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: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.13.4.10 SET UP CALL (support of Text Attribute – Foreground and Background Colour)

27.22.4.13.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.10.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.10.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the foreground and background colour text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.10.4 Method of test

27.22.4.13.4.10.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

27.22.4.13.4.10.4.2 Procedure

Expected Sequence 4.10 (SET UP CALL, Text Attribute – Foreground and Background Colour)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.10.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.10.1 |  |
| 4 | ME → USER | ME displays "CONFIRMATION 1" during the user confirmation phase |  |
| 5 | USER → ME | The user confirms the set up call | [user confirmation is displayed with foreground and background colour according to Text Attribute configuration] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" | [second alpha identifier is displayed with foreground and background colour according to Text Attribute configuration] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8 | ME → UICC | TERMINAL RESPONSE 4.10.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 4.10.2 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.10.2 |  |
| 13 | ME → USER | ME displays "CONFIRMATION 2" during the user confirmation phase |  |
| 14 | USER → ME | The user confirms the set up call | [user confirmation is displayed with ME's default foreground and background colour] |
| 15 | ME → USS | The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" | [second alpha identifier is displayed with ME's default foreground and background colour] |
| 16 | USS → ME | The ME receives the CONNECT message from the USS. | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 17 | ME → UICC | TERMINAL RESPONSE 4.10.1 The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 18 | USER → ME | The user ends the call after 10 s. The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 4.10.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Bright Yellow Foreground, Dark Green Background

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|  | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | 4B |  |  |

PROACTIVE COMMAND: SET UP CALL 4.10.2

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: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|  | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|  | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 |  |  |

TERMINAL RESPONSE: SET UP CALL 4.10.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

##### 27.22.4.13.5 SET UP CALL (UCS2 Display in ***Cyrillic***)

27.22.4.13.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.5.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

27.22.4.13.5.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.5.4 Method of test

27.22.4.13.5.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.5.4.2 Procedure

Expected Sequence 5.1 (SET UP CALL with UCS2 – Cyrillic Characters, call confirmed by the user and connected)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 5.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 5.1.1 |  |
| 4 | ME → USER | ME displays "ЗДРАВСТВУЙТЕ" during user confirmation phase. | ["ЗДРАВСТВУЙТЕ": "Hello" in Russian] |
| 5 | USER → ME | The user confirms the call set up | [user confirmation] |
| 6 | ME  USS | The ME attempts to set up a call to "+012340123456" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. |  |
| 8 | ME → UICC | TERMINAL RESPONSE 5.1.1  The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 5 s.  The ME returns to idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 5.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "ЗДРАВСТВУЙТЕ"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 19 | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 |
|  | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 |
|  | 04 | 15 | 86 | 07 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |  |

TERMINAL RESPONSE: SET UP CALL 5.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 5.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Cyrillic Characters)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 5.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 5.2.1 |  |
| 4 | ME → USER | ME displays "ЗДРАВСТВУЙТЕ1" during the user confirmation phase | ["ЗДРАВСТВУЙТЕ1": "Hello1" in Russian] |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456".  The ME displays "ЗДРАВСТВУЙТЕ2" | [second alpha identifier]  ["ЗДРАВСТВУЙТЕ2": "Hello2" in Russian] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. |  |
| 8 | ME → UICC | TERMINAL RESPONSE 5.2.1  The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 5 s.  The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 5.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: " ЗДРАВСТВУЙТЕ1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456"

Alpha Identifier (call set up phase): " ЗДРАВСТВУЙТЕ2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 1B | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 |
|  | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 |
|  | 04 | 15 | 00 | 31 | 86 | 07 | 91 | 10 | 32 | 04 | 21 | 43 |
|  | 65 | 85 | 1B | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 |
|  | 04 | 12 | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 |
|  | 04 | 22 | 04 | 15 | 00 | 32 |  |  |  |  |  |  |

TERMINAL RESPONSE: SET UP CALL 5.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.5.5 Test requirement

The ME shall operate in the manner defined in expected sequences 5.1 to 5.2.

##### 27.22.4.13.6 SET UP CALL (UCS2 Display in Chinese)

27.22.4.13.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.6.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.13.6.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.6.4 Method of test

27.22.4.13.6.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.6.4.2 Procedure

Expected Sequence 6.1 (SET UP CALL with UCS2 – Chinese characters, call confirmed by the user and connected)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 6.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 6.1.1 |  |
| 4 | ME → USER | ME displays "不忙" during user confirmation phase. | ["不忙": "Not Busy" in Chinese] |
| 5 | USER → ME | The user confirms the call set up | [user confirmation] |
| 6 | ME  USS | The ME attempts to set up a call to "+012340123456" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. |  |
| 8 | ME → UICC | TERMINAL RESPONSE 6.1.1  The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 5 s.  The ME returns to idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 6.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "不忙"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 19 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 05 | 80 | 4E | 0D | 5F | D9 | 86 | 07 | 91 | 10 | 32 | 04 |
|  | 21 | 43 | 65 |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SET UP CALL 6.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 6.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Chinese characters)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 6.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 6.2.1 |  |
| 4 | ME → USER | ME displays "确定" during the user confirmation phase | ["确定": "Confirmation" in Chinese] |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456".  The ME displays "打电话" | [second alpha identifier]  ["打电话": "CALL" in Chinese] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. |  |
| 8 | ME → UICC | TERMINAL RESPONSE 6.2.1  The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 5 s.  The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 6.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "确定"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456"

Alpha Identifier (call set up phase): "打电话"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 05 | 80 | 78 | 6E | 5B | 9A | 86 | 07 | 91 | 10 | 32 | 04 |
|  | 21 | 43 | 65 | 85 | 07 | 80 | 62 | 53 | 75 | 35 | 8B | DD |

TERMINAL RESPONSE: SET UP CALL 6.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.6.5 Test requirement

The ME shall operate in the manner defined in expected sequences 6.1 to 6.2.

##### 27.22.4.13.7 SET UP CALL (UCS2 Display in Katakana)

27.22.4.13.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.7.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.13.7.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.7.4 Method of test

27.22.4.13.7.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.7.4.2 Procedure

Expected Sequence 7.1 (SET UP CALL with UCS2 – Katakana characters, call confirmed by the user and connected)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 7.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 7.1.1 |  |
| 4 | ME → USER | ME displays "ル" during user confirmation phase. | [Character in Katakana] |
| 5 | USER → ME | The user confirms the call set up | [user confirmation] |
| 6 | ME  USS | The ME attempts to set up a call to "+012340123456" |  |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. |  |
| 8 | ME → UICC | TERMINAL RESPONSE 7.1.1  The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 5 s.  The ME returns to idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 7.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "ル"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 17 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 03 | 80 | 30 | EB | 86 | 07 | 91 | 10 | 32 | 04 | 21 | 43 |
|  | 65 |  |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SET UP CALL 7.1.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 7.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Katakana characters)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 7.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 7.2.1 |  |
| 4 | ME → USER | ME displays "ル1" during the user confirmation phase | [Character in Katakana] |
| 5 | USER → ME | The user confirms the set up call | [user confirmation] |
| 6 | ME USS | The ME attempts to set up a call to "+012340123456".  The ME displays "ル2". | [second alpha identifier]  [Character in Katakana] |
| 7 | USS → ME | The ME receives the CONNECT message from the USS. |  |
| 8 | ME → UICC | TERMINAL RESPONSE 7.2.1  The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9 | USER → ME | The user ends the call after 5 s.  The ME returns in idle mode. |  |

PROACTIVE COMMAND: SET UP CALL 7.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "ル1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456"

Alpha Identifier (call set up phase): "ル2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|  | 05 | 80 | 30 | EB | 00 | 31 | 86 | 07 | 91 | 10 | 32 | 04 |
|  | 21 | 43 | 65 | 85 | 05 | 80 | 30 | EB | 00 | 32 |  |  |

TERMINAL RESPONSE: SET UP CALL 7.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.13.7.5 Test requirement

The ME shall operate in the manner defined in expected sequences 7.1 to 7.2.

#### 27.22.4.14 POLLING OFF

##### 27.22.4.14.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.14.2 Conformance requirement

The ME shall support the POLLING OFF as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.14, clause 6.8, clause 6.11, clause 8.6 and clause 8.7.

##### 27.22.4.14.3 Test purpose

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

##### 27.22.4.14.4 Method of test

27.22.4.14.4.1 Initial conditions

For sequence 1.1:

- The elementary files are coded as Toolkit default.

- The ME is connected to the USIM Simulator and to the USS.

For sequence 1.2:

- The default E-UTRAN/EPC UICC, the default E-UTRAN parameters are used.

- The ME is connected to the USIM Simulator and to the E-USS/NB-SS.

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

27.22.4.14.4.2 Procedure

Expected Sequence 1.1 (POLLING OFF)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: POLL INTERVAL 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: POLL INTERVAL 1.1.1 | Interval = 1 min |
| 4 | ME → UICC | TERMINAL RESPONSE: POLL INTERVAL 1.1.1 A or TERMINAL RESPONSE: POLL INTERVAL 1.1.1B | [command performed successfully, duration depends on the ME's capabilities] |
| 5 | UICC → ME | PROACTIVE COMMAND PENDING: POLLING OFF 1.1.2 |  |
| 6 | ME → UICC | FETCH |  |
| 7 | UICC → ME | PROACTIVE COMMAND: POLLING OFF 1.1.2 |  |
| 8 | ME → UICC | TERMINAL RESPONSE: POLLING OFF 1.1.2 | [command performed successfully] |
| 9 | USER  ME | Call to be set up | A call shall be set up using the generic call setup for circuit switched call or to activate a PDP context. |
| 10 | ME  UICC | Periods of inactivity on the UICC-ME interfaceshall not exceed 30 seconds | In case of PDP context for a terminal that supports Rel-12 or later, exchange of data with the network may be required to guarantee the correct result of the test. |
| 11 | USER  ME | Call to be terminated 3 minutes after call setup |  |

PROACTIVE COMMAND: POLL INTERVAL 1.1.1

Logically:

Command details

Command number: 1

Command type: POLL INTERVAL

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: ME

Duration

Time unit: Minutes

Time interval: 1

Coding:

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

TERMINAL RESPONSE: POLL INTERVAL 1.1.1A

Logically:

Command details

Command number: 1

Command type: POLL INTERVAL

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Duration

Time unit: Minutes

Time interval: 1

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 03 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 84 | 02 | 00 | 01 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: POLL INTERVAL 1.1.1B

Logically:

Command details

Command number: 1

Command type: POLL INTERVAL

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Duration

Time unit: Seconds

Time interval: 60

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 03 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 84 | 02 | 01 | 3C |  |  |  |  |  |  |  |  |

Note: If the requested poll interval is not supported by the ME, the ME is allowed to use a different one as stated in TS 31.111 [15], clause 6.4.6.

PROACTIVE COMMAND: POLLING OFF 1.1.2

Logically:

Command details

Command number: 1

Command type: POLLING OFF

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: ME

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 04 | 00 | 82 | 02 | 81 | 82 |

TERMINAL RESPONSE: POLLING OFF 1.1.2

Logically:

Command details

Command number: 1

Command type: POLLING OFF

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

Expected Sequence 1.2 (POLLING OFF, E-UTRAN)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | ME → E-USS/NB-SS | The ME successfully performs EPS bearer context activation |  |
| 2 | UICC → ME | PROACTIVE COMMAND PENDING: POLL INTERVAL 1.1.1 |  |
| 3 | ME → UICC | FETCH |  |
| 4 | UICC → ME | PROACTIVE COMMAND: POLL INTERVAL 1.1.1 | Interval = 1 min |
| 5 | ME → UICC | TERMINAL RESPONSE: POLL INTERVAL 1.1.1 A or TERMINAL RESPONSE: POLL INTERVAL 1.1.1B | [command performed successfully, duration depends on the ME's capabilities] |
| 6 | UICC → ME | PROACTIVE COMMAND PENDING: POLLING OFF 1.1.2 |  |
| 7 | ME → UICC | FETCH |  |
| 8 | UICC → ME | PROACTIVE COMMAND: POLLING OFF 1.1.2 |  |
| 9 | ME → UICC | TERMINAL RESPONSE: POLLING OFF 1.1.2 | [command performed successfully] |
| 10 | ME  UICC | Periods of inactivity on the UICC-ME interface shall not exceed 30 seconds | For a terminal that supports Rel-12 or later, exchange of data with the network is required to guarantee the correct result of the test. |

##### 27.22.4.14.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 - 1.2.

#### 27.22.4.15 PROVIDE LOCAL INFORMATION

##### 27.22.4.15.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.15.2 Conformance requirement

The ME shall support the PROVIDE LOCAL INFORMATION facility as defined in:

- TS 31.111 [15] clause 6.4.15.

##### 27.22.4.15.3 Test purpose

To verify that the ME returns the following requested local information within a TERMINAL RESPONSE:

- location information:

- Mobile Country Code (MCC);

- Mobile Network Code (MNC);

- Location Area Code (LAC); and

- cell ID of the current serving cell;

- the IMEI of the ME;

- the Network Measurement Results and the BCCH channel list;

- the current date, time and time zone;

- the current ME language setting;

- the Timing Advance;

- the Access Technology;

- the IMEISV;

- the Search Mode change;

- the Battery charge State;

- the UTRAN intra- and inter-frequency measurements;

- the E-UTRAN intra- and inter-frequency measurements

- the CSG ID list and corresponding HNB names of surrounding CSG cells (if class "q" is supported);

- the list of slice(s) information;

- the CAG information list and the corresponding CAG Human-readable network name per CAG ID (if available in the broadcasted information to the ME) of detected CAG cells (if class "ag" is supported).

If the local information is stored in the ME; otherwise, sends the correct error code to the UICC in the TERMINAL RESPONSE.

To verify that the ME returns required error information in the TERMINAL RESPONSE in case requested information cannot be provided due to missing network coverage.

To verify that the E-UTRAN cell identifier is correctly transmitted when requesting the location information while accessing an E-UTRAN.

To verify that the NG-RAN cell identifier is correctly transmitted when requesting the location information while accessing an NG-RAN SA mode Cell.

To verify that the NG-RAN cell identifier is correctly transmitted when requesting the location information while accessing an NG-RAN Cell.

To verify that the Served S-NSSAIs are correctly transmitted in the TERMINAL RESPONSE when requesting the list of slice(s) information.

To verify that the ME reports available measurement information when requesting the Network Measurement Results while on an NG-RAN.

To verify that the CAG information list and the corresponding CAG Human-readable network name per CAG ID for specified PLMN are correctly transmitted in the TERMINAL RESPONSE when requesting the CAG information list and the corresponding CAG Human-readable network name per CAG ID of detected CAG cells when ME is camped on a CAG cell. When ME is not camped on a CAG cell, the TERMINAL RESPONSE shall contain 'ME currently not able to process command – no service' and optionally may return CAG cell selection status indicating ‘not camped on a CAG cell’ with additional information on the mode of selection.

##### 27.22.4.15.4 Method of tests

27.22.4.15.4.1 Initial conditions

The ME is connected to the USIM Simulator.

For sequences 1.1 to 1.7 and 1.9 to 1.13 the UICC shall contain elementary files coded as defined in the default values for USIM Application Toolkit testing from clause 27.22.2A.

To operate the sequences 1.14 to 1.18 the E-UTRAN/EPC UICC as defined in clause 27.22.2B.1 shall be used.

To operate the sequences 1.22 to 1.29 the NG-RAN UICC as defined in clause 27.22.2D.1 shall be used.

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

To operate the sequence 1.30 the NG-RAN UICC supporting CAG, as defined in clause 27.22.2D.4 shall be used.

Sequences 1.2, 1.4, 1.5, 1.9 and 1.11 do not need any System Simulator connection.

For sequences 1.1, 1.7, 1.12 and 1.13 the ME is connected to a USS, for sequences 1.15, 1.16 and 1.18 the ME is connected to an E-USS only, for sequences 1.14 and 1.17the ME is connected to an E-USS or NB-SS. In all listed sequences it has to perform the location update procedure or routing area update or combined update procedure.

For sequences 1.10 the ME is connected to a SS, a USS or an E-USS.

For sequences 1.22 to 1.30 the ME is connected to NG-SS. For all sequences but 1.30 it has to perform the Registration procedure.

The browser's cache shall have been cleared before execution of the test sequence. For sequence 1.24, 1.25 and 1.26, the URSP rules stored in the ME are:

URSP:

Rule Precedence =1

Traffic Descriptor:

* DNN=TestGp.rs

Route Selection Descriptor:

* Precedence=1
* Network Slice Selection, S-NSSAI: 01 01 01 03 (ST: eMBB, SD: 010103)
* SSC Mode Selection: SSC Mode 1
* Access Type preference: 3GPP access

Rule Precedence =2

Traffic Descriptor:

* DNN=Test12.rs

Route Selection Descriptor:

* Precedence=1
* Network Slice Selection, S-NSSAI: 01 01 01 02 (ST: eMBB, SD: 010102)
* SSC Mode Selection: SSC Mode 1
* Access Type preference: 3GPP access

Rule Precedence = <lowest priority>

Traffic Descriptor: \*

Route Selection Descriptor:

* Precedence =1
* SSC Mode Selection: SSC Mode 1
* Access Type preference: 3GPP access

The NG-RAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01;

- Tracking Area Code (TAC) = 000001;

- NG-RAN Cell Identity value = 0001 (36 bits);

- Allowed S-NSSAIs = 01010103 (SST: eMBB, SD: 010103), 01010102 (SST: eMBB, SD: 010102);

- Primary Timing Advance = 0;

The E-UTRAN/NB-IoT parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01;

- Tracking Area Code (TAC) = 0001;

- E-UTRAN Cell Identity value = 0001 (28 bits);

The UTRAN 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 GERAN 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;

- Neighbour 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.

.

Expected sequence 1.3 and 1.6 shall be used on a USS setting up only a GERAN or PCS 1900 cell and expected sequences 1.7 and 1.12 shall be used on a USS setting up only a UTRAN cell.

Expected sequence 1.12 requires two UTRA cells on the same frequency and 1.13 requires two UTRA cells on different frequencies.

Expected sequences 1.14 and 1.17 shall be used on a E-USS/NB-SS setting up only a E-UTRAN/NB-IoT cell.

Expected sequence 1.22, 1.23, 1.24, 1.25, 1.26 and 1.27 shall be used on a NG-SS setting up only a NG-RAN cell.

Expected sequence 1.15 requires two E-UTRA cells on the same frequency and 1.16 requires two E-UTRA cells on different frequencies, with second cell having EARFCN less than maxEARFCN. For both sequences if the USIM request is triggered in the RRC\_CONNECTED state, the system simulator shall configure the corresponding frequency measurement for a sufficient period before sending the USIM request.

Expected sequence 1.18 requires two E-UTRAN cells configured in CSG mode.

For sequence 1.18 the default E-UTRAN/EPC UICC is used and the E-USS transmits on two cells with the following parameters:

Network parameters for Cell 1:

- TAI (MCC/MNC/TAC): 001/01/0001.

- Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 01 (27 bits)

- Home (e)NB Name Home ONE

Network parameters for Cell 2:

- TAI (MCC/MNC/TAC): 001/01/0002.

- Access control: unrestricted.

- csg-Indication: TRUE

- csg-Identity: 02 (27 bits)

- Home (e)NB Name Home TWO

Expected sequences 1.28 and 1.29 require two NG-RAN cells on the same NR band.

For sequences 1.28 and 1.29, the default NG-RAN UICC is used and the two cells with the following parameters:

Network parameters for Cell 1:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01;

- Tracking Area Code (TAC) = 000001;

- NG-RAN Cell Identity value = 0001 (36 bits);

- Allowed S-NSSAIs = 01010103 (SST: eMBB, SD: 010103), 01010102 (SST: eMBB, SD: 010102);

- Primary Timing Advance = 0;

Network parameters for Cell 2:

- Mobile Country Code (MCC) = 001;

- Mobile Network Code (MNC) = 01;

- Tracking Area Code (TAC) = 000001;

- NG-RAN Cell Identity value = 0002 (36 bits);

For sequence 1.28, the Cell 1 is the serving cell, and Cell 2 is the intra-frequency neighbour cell.

Note – Cell 1 and Cell 2 are configured with proper cell reference power, as well as SIB1 and SIB2 cellReselection Thresholds and Priority values that ensure ME will not reselect to Cell 2.

For sequence 1.29, the Cell 1 is the serving cell, and Cell 2 is the inter-frequency neighbour cell.

Note – Cell 1 is configured with SIB4 *interFreqCarrierFreqList* includes *dl-CarrierFreq* of Cell 2 Downlink NR SSB ARFCN; Cell 1 and Cell 2 are configured with proper cell reference power, as well as SIB1 and SIB4 with the cellReselection Thresholds and Priority values that ensure ME will not reselect to Cell 2.

For sequences 1.28 and 1.29, the ME is connected to Cell 1 and it has performed the Registration procedure.

Expected sequence 1.30 requires two NR CAG cells.

For sequence 1.30, the NG-SS transmits two NR CAG cells with following configuration:

Cell 1:

- Mobile Country Code (MCC) = 244;

- Mobile Network Code (MNC) = 083;

- Tracking Area Code (TAC) = 000001;

Cell 2:

- Mobile Country Code (MCC) = 244;

- Mobile Network Code (MNC) = 084;

- Tracking Area Code (TAC) = 000002;

CAG cell 1 has the following parameters configured for NPN-Identity and corresponding HRNN in SIB1 and SIB 10 respectively:

Entry 1:

- Mobile Country Code (MCC) = 244;

- Mobile Network Code (MNC) = 083;

- CAG ID: 00 00 00 01

- No CAG human-readable network name broadcasted

Entry 2:

- Mobile Country Code (MCC) = 244;

- Mobile Network Code (MNC) = 084;

- CAG ID: 00 00 00 02

- CAG human-readable network name: ′CAG-00000002′

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 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1 |  |
| 4 | ME → UICC | 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 USS, option A shall apply for 3GPP parameters] [Command performed successfully, MCC MNC LAC and Cell Identity as USS, 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: UICC

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: UICC

Result

General Result: Command performed successfully

Location Information

MCC & MNC: MCC = 001, MNC = 01

Location Area Code: 0001

Cell Identity Value: 0001

Extended Cell Identity Value: RNC-id value (for Rel-4 onwards), see also Note 2

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 93 | Note 1 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 2 |  |  |

Note 1: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 2: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

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: UICC

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 |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1 | [Command performed successfully, IMEI as declared in A.2/23, coded according to TS 24.008 [10], clause 10.5.1, but spare digit shall be zero when transmitted by the ME] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "01" IMEI of the ME

Device identities

Source device: UICC

Destination device: ME

Coding:

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

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "01" IMEI of the ME

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

IMEI

IMEI of the ME: The IMEI of the ME

The result coding depends on the Mobile IMEI value as declared in table A.2/23.

Coding:

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

As an example, if the IMEI of the mobile is "123456789012345" then XX XX XX XX XX XX XX XX = 1A 32 54 76 98 10 32 04. For further details see also TS 24.008 [10], clause 10.5.1.

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.3.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1 | [Command performed successfully, NMR as USS ] |

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: UICC

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: UICC

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 | 0D | 8C | 63 | 58 | E2 |
|  | 39 | 8F | 63 | F9 | 06 | 45 | 91 | A4 | 90 |  |  |  |

Expected Sequence 1.4 (PROVIDE LOCAL INFORMATION, Date, Time, Time Zone)

See ETSI TS 102 384 [26] in clause 27.22.4.15.4.2, Expected Sequence 1.4.

Expected Sequence 1.5 (PROVIDE LOCAL INFORMATION, Language setting)

See ETSI TS 102 384 [26] in clause 27.22.4.15.4.2, Expected Sequence 1.5.

Expected Sequence 1.6 (PROVIDE LOCAL INFORMATION, Timing advance)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.6.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.6.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.6.1 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.6.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "05" Timing Advance

Device identities

Source device: UICC

Destination device: ME

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 05 | 82 | 02 | 81 | 82 |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.6.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "05" Timing Advance

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Timing Advance 2 bytes

ME status: "00" ME is in idle state

Timing Advance: 0

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 05 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | AE | 02 | 00 | 00 |  |  |  |  |  |  |  |  |

Expected Sequence 1.7 (PROVIDE LOCAL INFORMATION, Access Technology

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.7.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.7.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.7.1 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.7.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "06" Access Technology

Device identities

Source device: UICC

Destination device: ME

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 06 | 82 | 02 | 81 | 82 |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.7.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "06" Access Technology

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Access Technology

Technology: UTRAN

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 06 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 3F | 01 | 03 |  |  |  |  |  |  |  |  |  |

Expected Sequence 1.8 (Void)

Expected Sequence 1.9 (PROVIDE LOCAL INFORMATION, IMEISV of the terminal)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.9.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.9.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.9.1 | [Command performed successfully, IMEISV as declared in A.2/24, coded as defined in TS 24.008 [10]] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.9.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "08" IMEISV of the ME

Device identities

Source device: UICC

Destination device: ME

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 08 | 82 | 02 | 81 | 82 |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.9.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "08" IMEISV of the ME

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

IMEISV

IMEISV of the ME: The IMEISV of the ME

The result coding depends on the ME IMEISV value as declared in table A.2/24.

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 08 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | E2 | 09 | XX | XX | XX | XX | XX | XX | XX | XX | XX |  |

As an example, if the IMEISV of the ME is "1234567890123456" then XX XX XX XX XX XX XX XX XX= 13 32 54 76 98 10 32 54 F6. For further details see also TS 24.008 [10].

Expected Sequence 1.10 (PROVIDE LOCAL INFORMATION, Network Search Mode)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | User | The user sets the ME to manual network selection mode |  |
| 2 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.10.1 |  |
| 3 | ME → UICC | FETCH |  |
| 4 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.1 |  |
| 5 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.10.1 | [Command performed successfully] |
| 6 | User | The user selects automatic network selection mode |  |
| 7 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.10.2 |  |
| 8 | ME → UICC | FETCH |  |
| 9 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.2 |  |
| 10 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.10.2 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "09" Search Mode

Device identities

Source device: UICC

Destination device: ME

Coding:

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

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.10.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "09" Search Mode

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Network Search Mode Manual mode

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 09 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 65 | 01 | 00 |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.2

same as PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.1

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.10.2

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "09" Search Mode

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Network Search Mode Automatic mode

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 09 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 65 | 01 | 01 |  |  |  |  |  |  |  |  |  |

Expected Sequence 1.11 (PROVIDE LOCAL INFORMATION, charge state of the battery)

See ETSI TS 102 384 [26] in clause 27.22.4.15.4.2, Expected Sequence 1.11.

Expected Sequence 1.12 (PROVIDE LOCAL INFORMATION, Intra-Frequency UTRAN Measurements)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.12.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.12.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.12.1 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.12.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "02" Network Measurement Results

Device identities

Source device: UICC

Destination device: ME

UTRAN/E-UTRAN Measurement Qualifier

UTRAN/E-UTRAN Measurement Qualifier: "01" Intra-frequency measurements

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 | 69 |
|  | 01 | 01 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.12.1

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: UICC

Result

General Result: Command performed successfully

Network Measurement Results MEASUREMENT REPORT message

intraFreqMeasuredResultsList

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 96 | Note 1 | 80 | Note 2 | Note 3 | Note 4 |  |  |  |  |  |  |

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note2: This byte shall be checked bitwise against pattern: 0000 xxxx (x – don't care).

Note 3: This byte shall be checked bitwise against pattern: x000 0111 (x – don't care).

Note 4: The remaining bytes shall not be verified.

The network measurement result indicated by the sequence of bytes above is:

*MeasurementReport*

*measurementIdentity*

*measuredResults: intraFreqMeasuredResultsList ( 0 )*

*intraFreqMeasuredResultsList*

*CellMeasuredResults*

*modeSpecificInfo: fdd ( 0 )*

*fdd*

*primaryCPICH-Info*

*cpich-Ec-N0*

*cpich-RSCP*

*pathloss*

Expected Sequence 1.13 (PROVIDE LOCAL INFORMATION, Inter-frequency UTRAN Measurements)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.13.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.13.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.13.1 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.13.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "02" Network Measurement Results

Device identities

Source device: UICC

Destination device: ME

UTRAN/E-UTRAN Measurement Qualifier

UTRAN/E-UTRAN Measurement Qualifier: "02" Inter-frequency measurements

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 | 69 |
|  | 01 | 02 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.13.1

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: UICC

Result

General Result: Command performed successfully

Network Measurement Results MEASUREMENT REPORT message

interFreqMeasuredResultsList

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 96 | Note 1 | 80 | Note 2 | Note 3 | Note 4 | Note 4 | Note 5 | Note 6 | Note 7 |  |  |

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note2: This byte shall be checked bitwise against pattern: 0001 xxx1 (x – don't care).

Note 3: This byte shall be checked bitwise against pattern: 1100 xxxx (x – don't care).

Note 4: This byte shall not be verified.

Note 5: This byte shall be checked bitwise against pattern: xxxx xx00 (x – don't care).

Note 6: This byte shall be checked bitwise against pattern: 0011 1xxx (x – don't care).

Note 7: The remaining bytes shall not be verified.

The network measurement result indicated by the sequence of bytes above is:

*MeasurementReport*

*measurementIdentity*

*MeasuredResults: interFreqMeasuredResultsList InterFreqMeasuredResultsList ( 1 )*

*interFreqMeasuredResultsList*

*InterFreqMeasuredResults*

*frequencyInfo*

*utra-CarrierRSSI*

*interFreqCellMeasuredResultsList*

*CellMeasuredResults*

*modeSpecificInfo: fdd ( 0 )*

*fdd*

*primaryCPICH-Info*

*cpich-Ec-N0*

*cpich-RSCP*

*pathloss*

Expected Sequence 1.14 (PROVIDE LOCAL INFORMATION, Access Technology, E-UTRAN)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.14.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.14.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.14.1 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.14.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "06" Access Technology

Device identities

Source device: UICC

Destination device: ME

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 06 | 82 | 02 | 81 | 82 |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.14.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "06" Access Technology

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Access Technology

Technology: E-UTRAN

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 06 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 3F | 01 | 08 |  |  |  |  |  |  |  |  |  |

Expected Sequence 1.15 (PROVIDE LOCAL INFORMATION, E-UTRAN Intra-Frequency Measurements)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.15.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.15.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.15.1 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.15.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "02" Network Measurement Results

Device identities

Source device: UICC

Destination device: ME

UTRAN/E-UTRAN Measurement Qualifier

UTRAN/E-UTRAN Measurement Qualifier: "05" E-UTRAN Intra-frequency measurements

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 | 69 |
|  | 01 | 05 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.15.1

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: UICC

Result

General Result: Command performed successfully

Network Measurement Results MEASUREMENT REPORT message

measResultNeighCells

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 96 | Note 1 | 02 | Note 2 | Note 3 | Note 4 | Note 5 |  |  |  |  |  |

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note 2: This byte shall be checked bitwise against pattern: 0000 xxxx (x – don't care).

Note 3: This byte shall not be verified.

Note 4: This byte shall be checked bitwise against pattern: x000 xxxx (x – don't care).

Note 5: The remaining bytes shall not be verified.

The network measurement result indicated by the sequence of bytes above is:  
  
Network Measurement results:  
 measurementReport  
 criticalExtensions: c1 (0)  
 c1: measurementReport-r8 (0)  
 measurementReport-r8  
 measResults  
 … *{Not Verified}*  
 measResultNeighCells:  
 … *{Not Verified}*

Expected Sequence 1.16 (PROVIDE LOCAL INFORMATION, E-UTRAN Inter-Frequency Measurements)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | ME | Terminal is in RRC idle state |  |
| 2 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.16.1 |  |
| 3 | ME → UICC | FETCH |  |
| 4 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.16.1 |  |
| 5 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.16.1 | [Command performed successfully, limited service] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.16.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "02" Network Measurement Results

Device identities

Source device: UICC

Destination device: ME

UTRAN/E-UTRAN Measurement Qualifier

UTRAN/E-UTRAN Measurement Qualifier: "06" E-UTRAN Inter-frequency measurements

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 | 69 |
|  | 01 | 06 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.16.1

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: UICC

Result

General Result: Command performed successfully

Network Measurement Results Frequency value of inter-frequency E-UTRAN cell and MEASUREMENT REPORT message

measResultNeighCells

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 96 | Note 1 | Note 2 | Note 2 | 02 | Note 3 | Note 4 | Note 5 | Note 6 |  |  |  |

Note 1: This is the length indicator for the following bytes which contain 2 bytes with the frequency value coded as the ARFCN-ValueEUTRA followed by the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note 2: This is the frequency of the second E-UTRA cell, coded as ARFCN-ValueEUTRA. This byte shall not be verified.

Note 3: This byte shall be checked bitwise against pattern: 0000 xxxx (x – don't care).

Note 4: This byte shall not be verified.

Note 5: This byte shall be checked bitwise against pattern: x000 xxxx (x – don't care).

Note 6: The remaining bytes shall not be verified.

Expected Sequence 1.17 (PROVIDE LOCAL INFORMATION, E-UTRAN Local Info (MCC, MNC, TAC & E-UTRAN Cell ID))

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.17.1 |  |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1

Sames as PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1 in expected sequence 1.1

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.17.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "00" Location information (MCC MNC TAC and E-UTRAN Cell Identity)

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Location Information

MCC & MNC: MCC = 001, MNC = 01

Tracking Area Code: 0001

E-UTRAN Cell Identifier: 0001 (28 bits)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 93 | 09 | 00 | F1 | 10 | 00 | 01 | 00 | 00 | 00 | 1F |  |

Expected Sequence 1.18 (PROVIDE LOCAL INFORMATION, Discovery of surrounding CSG cells)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | E-USS | Cell 1 is enabled, with csg-indication set to TRUE  Cell 2 disabled |  |
| 2 | ME | A manual CSG cell selection is performed. |  |
| 3 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.18.1 |  |
| 4 | ME → UICC | FETCH |  |
| 5 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.18.1 | 1 cell in the list |
| 6 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.18.1 | [Command performed successfully] |
| 7 | E-USS | Cell 2 is enabled, with csg-indication set to TRUE |  |
| 8 | ME | A manual CSG cell selection is performed. |  |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.18.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.18.1 | 2 cells in the list |
| 12 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.18.2 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.18.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "11" CSG ID list and corresponding HNB name

Device identities

Source device: UICC

Destination device: ME

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 11 | 82 | 02 | 81 | 82 |  |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.18.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "11" CSG ID list and corresponding HNB name

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

CSG ID list Identifier

PLMN MCC = 001, MNC = 01

CSG ID and Name

CSG ID 01 (27 bits)

HNB name Home ONE

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 11 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 7E | 1C | 80 | 03 | 00 | F1 | 10 | 81 | 15 | 00 | 00 | 00 |
|  | 3F | 80 | 00 | 48 | 00 | 6F | 00 | 6D | 00 | 65 | 00 | 20 |
|  | 00 | 4F | 00 | 4E | 00 | 45 |  |  |  |  |  |  |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.18.2

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "11" CSG ID list and corresponding HNB name

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

CSG ID list Identifier

PLMN MCC = 001, MNC = 01

CSG ID and Name

CSG ID 01 (27 bits)

HNB name Home ONE

CSG ID and Name

CSG ID 02 (27 bits)

HNB name Home TWO

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 11 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 7E | 33 | 80 | 03 | 00 | F1 | 10 | 81 | 15 | 00 | 00 | 00 |
|  | 3F | 80 | 00 | 48 | 00 | 6F | 00 | 6D | 00 | 65 | 00 | 20 |
|  | 00 | 4F | 00 | 4E | 00 | 45 | 81 | 15 | 00 | 00 | 00 | 5F |
|  | 80 | 00 | 48 | 00 | 6F | 00 | 6D | 00 | 65 | 00 | 20 | 00 |
|  | 54 | 00 | 57 | 00 | 4F |  |  |  |  |  |  |  |

Expected Sequence 1.19 (PROVIDE LOCAL INFORMATION, Location Information for Multiple Access Technologies)

TBD

Expected Sequence 1.20 (PROVIDE LOCAL INFORMATION, NMR for Multiple Access Technologies)

TBD

Expected Sequence 1.21 (PROVIDE LOCAL INFORMATION, current access technologies, Multiple Access Technologies)

TBD

NOTE: The above test sequences (1.19, 1.20, 1.21) on Multiple Access Technologies imply the support of one or more non-3GPP access technologies and therefore can not be tested within 3GPP.

Expected Sequence 1.22 (PROVIDE LOCAL INFORMATION, NG-RAN Local Info (MCC, MNC, TAC & NG-RAN Cell ID))

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | Message / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.22.1 |  |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1

Same as PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1 in expected sequence 1.1

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.22.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "00" Location information (MCC MNC TAC and NG-RAN Cell Identity)

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Location Information

MCC & MNC: MCC = 001, MNC = 01

Tracking Area Code: 000001

NG-RAN Cell Identifier: 0001 (36 bits)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 93 | 0B | 00 | F1 | 10 | 00 | 00 | 01 | 00 | 00 | 00 | 00 |
|  | 1F |  |  |  |  |  |  |  |  |  |  |  |

Expected Sequence 1.23 (PROVIDE LOCAL INFORMATION, Access Technology, NG-RAN)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | Message / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.14.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.14.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.23.1 | [Command performed successfully] |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.23.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "06" Access Technology

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Access Technology

Technology: 3GPP NR

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 06 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 3F | 01 | 0A |  |  |  |  |  |  |  |  |  |

Expected Sequence 1.24 (PROVIDE LOCAL INFORMATION, slice(s) information)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Internet PDU session using DNN "TestGp.rs" is configured in the terminal | DNN: "TestGp.rs" for internet PDU |
| 2 | ME → NG-SS | ME successfully REGISTER with NG-RAN cell. |  |
| 3 | ME → NG-SS | An Internet PDU Session is established successfully. | DNN=TestGp.rs,  S-NSSAI = 01010103 |
| 4 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.24.1 |  |
| 5 | ME → UICC | FETCH |  |
| 6 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.24.1 |  |
| 7 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.24.1 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.24.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "15" slices information

Device identities

Source device: UICC

Destination device: ME

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 15 | 82 | 02 | 81 | 82 |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.24.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "15" slices information

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Slice Information

Number of Served S-NSSAIs: 1

Served S-NSSAI: '01 01 01 03' (SST: eMBB, SD: 010103)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 15 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | D6 | 05 | 01 | 01 | 01 | 01 | 03 |  |  |  |  |  |

Expected Sequence 1.25 (PROVIDE LOCAL INFORMATION, slice(s) information), no served slice

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Internet PDU session using DNN "TestGp.rs" is configured in the terminal | DNN: "TestGp.rs" for internet PDU |
| 2 | ME → NG-SS | ME successfully REGISTER with NG-RAN cell. |  |
| 3 | ME → NG-SS | An Internet PDU Session is established successfully. | DNN=TestGp.rs,  S-NSSAI = 01010103 |
| 4 | NG-SS → ME | Request to release all established PDU sessions | PDU SESSION RELEASE COMMAND sent by NG-SS for all established PDU session |
| 5 | ME → NG-SS | All PDU Session are released. | PDU SESSION RELEASE COMPLETE received by NG-SS for all PDU SESSION RELEASE COMMAND |
| 6 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.24.1 |  |
| 7 | ME → UICC | FETCH |  |
| 8 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.24.1 |  |
| 9 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.25.1 | [Command performed successfully] |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.25.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "15" slices information

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Slice Information

Number of Served S-NSSAIs: 0

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 15 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | D6 | 01 | 00 |  |  |  |  |  |  |  |  |  |

Expected Sequence 1.26 (PROVIDE LOCAL INFORMATION, slice(s) information), several served slices

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Internet PDU session using DNN "TestGp.rs" is configured in the terminal.  The second PDU session using DNN "Test12.rs" is configured in the terminal | DNN: "TestGp.rs" for internet PDU |
| 2 | ME → NG-SS | ME successfully REGISTER with NG-RAN cell. |  |
| 3 | ME → NG-SS | Internet PDU Session is established successfully. | DNN=TestGp.rs,  First Served S-NSSAI = 01010103 |
| 4 | USER → ME | Initiate a data call using DNN=”Test12.rs” |  |
| 5 | ME → NG-SS | Second PDU Session is established successfully. | DNN=Test12.rs,  Second Served S-NSSAI = 01010102 |
| 6 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.24.1 |  |
| 7 | ME → UICC | FETCH |  |
| 8 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.24.1 |  |
| 9 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.26.1 | [Command performed successfully] |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.26.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "15" slices information

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Slice Information

Number of Served S-NSSAIs: 2

First Served S-NSSAI: '01 01 01 03' (SST: eMBB, SD: 010103)

Second Served S-NSSAI: '01 01 01 02' (SST: eMBB, SD: 010102)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 15 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | D6 | 09 | 02 | 01 | 01 | 01 | 03 | 01 | 01 | 01 | 02 |  |

Expected Sequence 1.27 (PROVIDE LOCAL INFORMATION, Timing advance in NG-RAN)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.27.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.27.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.27.1 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.27.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "05" Timing Advance

Device identities

Source device: UICC

Destination device: ME

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 05 | 82 | 02 | 81 | 82 |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.27.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "05" Timing Advance

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

NG-RAN Primary Timing Advance Information: 4 bytes

ME status: "00" ME is in idle state

Primary Timing Advance: 0

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 05 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | B1 | 04 | 00 | 00 | 00 | 00 |  |  |  |  |  |  |

Expected Sequence 1.28 (PROVIDE LOCAL INFORMATION, NG-RAN Intra-Frequency Measurements)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | NG-SS → ME | *RRCReconfiguration* message including *MeasConfig* to setup NR measurement and reporting for intra-frequency event A4 (*measId* 1) | *measObject* 1 is configured with *ssbFrequency* IE equals the ARFCN for NR Cell 2; *reportConfigNR* 1 is configured with *a4-Threshold* *rsrp* IE value that A4 event is triggered at step 4. |
| 2 | ME → NG-SS | *RRCReconfigurationComplete* |  |
| 3 | NG-SS | Cell 2 is enabled |  |
| 4 | ME → NG-SS | *MeasurementReport* message to report event A4 (*measId* 1) with the measured RSRP value for NR Cell 2 |  |
| 5 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.28.1 |  |
| 6 | ME → UICC | FETCH |  |
| 7 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.28.1 |  |
| 8 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.28.1 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.28.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "02" Network Measurement Results

Device identities

Source device: UICC

Destination device: ME

NG-RAN Measurement Qualifier

NG-RAN Measurement Qualifier: "0A"NG-RAN Intra-frequency measurements

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 | 69 |
|  | 01 | 0A |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.28.1

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: UICC

Result

General Result: Command performed successfully

Network Measurement Results MEASUREMENT REPORT message

measResultNeighCells

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 96 | Note 1 | 08 | Note 2 | Note 3 | Note 4 | Note 5 |  |  |  |  |  |

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note 2: This byte shall be checked bitwise against pattern: 0000 xxxx (x – don't care).

Note 3: This byte shall not be verified.

Note 4: This byte shall be checked bitwise against pattern: x000 xxxx (x – don't care).

Note 5: The remaining bytes shall not be verified.

Expected Sequence 1.29 (PROVIDE LOCAL INFORMATION, NG-RAN Inter-Frequency Measurements)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | NG-SS→ ME | *RRCReconfiguration* message including *MeasConfig* to setup NR measurement and reporting for inter-frequency event A4 (*measId* 1) | *measObject* 1 is configured with *ssbFrequency* IE equals the ARFCN for NR Cell 2; *reportConfigNR* 1 is configured with *a4-Threshold* *rsrp* IE value that ensures A4 is triggered at step 4. |
| 2 | ME → NG-SS | *RRCReconfigurationComplete* |  |
| 3 | NG-SS | Cell 2 is enabled |  |
| 4 | ME → NG-SS | *MeasurementReport* message to report event A4 (*measId* 1) with the measured RSRP value for NR Cell 2 |  |
| 5 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.29.1 |  |
| 6 | ME → UICC | FETCH |  |
| 7 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.29.1 |  |
| 8 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.29.1 | [Command performed successfully, limited service] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.29.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "02" Network Measurement Results

Device identities

Source device: UICC

Destination device: ME

NG-RAN Measurement Qualifier

NG-RAN Measurement Qualifier: "0B" NG-RAN Inter-frequency measurements

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 | 69 |
|  | 01 | 0B |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.29.1

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: UICC

Result

General Result: Command performed successfully

Network Measurement Results Frequency value of inter-frequency NG-RAN cell and MEASUREMENT REPORT message

measResultNeighCells

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 96 | Note 1 | Note 2 | Note 2 | Note 2 | 08 | Note 3 | Note 4 | Note 5 | Note 6 |  |  |

Note 1: This is the length indicator for the following bytes which contain 3 bytes with the frequency value coded as the ARFCN-ValueNR followed by the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note 2: This is the frequency of the second NR cell, coded as ARFCN-ValueNR. This byte shall not be verified.

Note 3: This byte shall be checked bitwise against pattern: 0000 xxxx (x – don't care).

Note 4: This byte shall not be verified.

Note 5: This byte shall be checked bitwise against pattern: x000 xxxx (x – don't care).

Note 6: The remaining bytes shall not be verified.

Expected Sequence 1.30 (PROVIDE LOCAL INFORMATION, CAG information list)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | Message / Action | Comments |
| 1 | NG-SS | Cell 1 and Cell 2 are disabled. |  |
| 2 | USER → ME | ME is switched on | ME does not register to any cell and remains in no service state. |
| 3 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.30.1 |  |
| 4 | ME → UICC | FETCH |  |
| 5 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.30.1 |  |
| 6 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.30.1 | [Command performed successfully] |
| 7 | NG-SS | Cell 1 is enabled. |  |
| 8 | ME → NG-SS | The ME successfully registers to Cell 1 |  |
| 9 | NG-SS | Cell 2 is enabled. | Cell 2 is powered up at lower power level such that UE does not perform reselection to Cell 2. |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.30.1 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.30.1 |  |
| 13 | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.30.2 | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.30.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "16" CAG information list and the corresponding human-readable network

name per PLMN

Device identities

Source device: UICC

Destination device: ME

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 16 | 82 | 02 | 81 | 82 |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.30.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "16" CAG information list and the corresponding human-readable network

name per CAG ID

Device identities

Source device: ME

Destination device: UICC

Result

General result: ME currently unable to process command

Additional information on result: No service

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 16 | 82 | 02 | 82 | 81 | 83 | 02 | 20 |
|  | 04 |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.30.2

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "16" CAG information list and the corresponding human-readable network

name per CAG ID

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

CAG Cell selection status

Byte 1, general information: '01' (camped on a CAG cell)

Byte 2, additional information: '81' (Result of another CAG selection type)

CAG information list

Two sets of CAG information in the list

1st CAG information

MCC = 244, MNC = 083

Ignore 'CAG only' bit = true

1st CAG ID

CAG ID: 00 00 00 01

2nd CAG information

MCC = 244, MNC = 084

Ignore 'CAG only' bit = true

2nd CAG ID

CAG ID: 00 00 00 02

CAG Human-readable network name list

Two CAG Human-readable network names in the list

1st CAG Human-readable network name: empty

2nd CAG Human-readable network name: ′CAG-00000002′

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 26 | 16 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 55 | 02 | 01 | 81 | 56 | 12 | 08 | 42 | 34 | 80 | 04 | 00 |
|  | 00 | 00 | 01 | 08 | 42 | 44 | 80 | 04 | 00 | 00 | 00 | 02 |
|  | 57 | 10 | 80 | 00 | 80 | 0C | 43 | 41 | 47 | 2D | 30 | 30 |
|  | 30 | 30 | 30 | 30 | 30 | 32 |

##### 27.22.4.15.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.30.

#### 27.22.4.16 SET UP EVENT LIST

##### 27.22.4.16.1 SET UP EVENT LIST (normal)

27.22.4.16.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.16.1.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Event List facility as defined in:

- TS 31.111 [15] clause 6.4.16 and clause 6.6.16.

Additionally the ME shall support the Event Download: Call Connect and the Event Download: Call Disconnected mechanism as defined in:

- TS 31.111 [15] clause 11.2, clause 11.2.1, clause 11.2.2, clause 11.3, clause 11.3.1 and clause 11.3.2.

27.22.4.16.1.3 Test purpose

To verify that the ME accepts a list of events that it shall monitor the current list of events supplied by the UICC, is able to have this current list of events replaced and is able to have the list of events removed.

To verify that when the ME has successfully accepted or removed the list of events, it shall send TERMINAL RESPONSE (OK) to the UICC and when the ME is not able to successfully accept or remove the list of events, it shall send TERMINAL RESPONSE (Command beyond ME's capabilities).

27.22.4.16.1.4 Method of test

27.22.4.16.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

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

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

27.22.4.16.1.4.2 Procedure

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

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

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: UICC

Destination device: ME

Event list

Event 1: Call Connected

Coding:

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

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

SET UP 1.1.1

Logically:

Transaction identifier

TI value: 0 (bit 5-7)

Address

TON: "Unknown"

NPI: "ISDN/ telephone numbering plan"

Dialling number string: "9876"

CONNECT 1.1.1

Logically:

Transaction identifier

TI value: 0 (bit 5-7)

TI flag: 1 (bit 8)

ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1.1

Logically

Event list

Event 1: Call Connected

Device identities

Source device: ME

Destination device: UICC

Transaction identifier

TI value: 0 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 1 (bit 8)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D6 | 0A | 99 | 01 | 01 | 82 | 02 | 82 | 81 | 9C | 01 | 80 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1 | [Call Connected and Call Disconnected Events] |
| 4 | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1 |  |
| 5 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.2 |  |
| 6 | ME → UICC | FETCH |  |
| 7 | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2 | [Call Disconnected Event] |
| 8 | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2 |  |
| 9 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |
| 10 | USS → ME | SETUP 1.2.2 | [Incoming call alert] |
| 11 | USER → ME | User shall accept the incoming call |  |
| 12 | ME → USS | CONNECT 1.2.2 |  |
| 13 | USS → ME | DISCONNECT 1.2.2 |  |
| 14 | ME → UICC | ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2A or ENVELOPE: EVENT DOWNLOAD CALL DISCONNECT 1.2.2B | [Call Disconnect Event] |
| 15 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |

PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: UICC

Destination device: ME

Event list

Event 1: Call Connected

Event 2: Call Disconnected

Coding:

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

TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: UICC

Destination device: ME

Event list

Event 1: Call Disconnected

Coding:

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

TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

SET UP 1.2.2

Logically:

Transaction identifier

TI value: 0 (bit 5-7)

TI flag: 0 (bit 8)

Address

TON: "Unknown"

NPI: "ISDN/ telephone numbering plan"

Dialling number string: "9876"

CONNECT 1.2.2

Logically:

Transaction identifier

TI value: 0 (bit 5-7)

TI flag: 1 (bit 8)

DISCONNECT 1.2.2

Logically:

Transaction identifier

TI value: 0 (bit 5-7)

TI flag: 0 (bit 8)

Cause

Value: Normal call clearing

ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2A

Logically:

Event list

Event 1: Call Disconnected

Device identities

Source device: Network

Destination device: UICC

Transaction identifier

TI value: 0 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 0 (bit 8)

Cause

Value: Normal call clearing

Coding:

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

ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2B

Logically:

Event list

Event 1: Call Disconnected

Device identities

Source device: Network

Destination device: UICC

Transaction identifier

TI value: 0 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 0 (bit 8)

Cause

Value: Normal call clearing

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D6 | 0E | 99 | 01 | 02 | 82 | 02 | 83 | 81 | 9C | 01 | 00 |
|  | 9A | 02 | E0 | 90 |  |  |  |  |  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1 | [Call Connected Event] |
|  | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1 |  |
| 4 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.3.2 |  |
| 5 | ME → UICC | FETCH |  |
| 6 | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2 | [Remove Event] |
| 7 | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2 |  |
| 8 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |
| 10 | USS → ME | SETUP 1.3.2 | [Incoming call alert] |
| 11 | USER → ME | User shall accept the incoming call |  |
| 12 | ME → USS | CONNECT 1.3.2 |  |
| 13 | ME → UICC | No ENVELOPE: EVENT DOWNLOAD (call connected) sent |  |
| 14 | USS → ME | DISCONNECT 1.3.2 |  |

PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: UICC

Destination device: ME

Event list

Event 1: Call Connected

Coding:

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

TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: UICC

Destination device: ME

Event list: Empty

Coding:

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

TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

SET UP 1.3.2

Logically:

Transaction identifier

Ti value: 0 (bit 5-7)

Ti flag: 0 (bit 8)

Address

TON: "Unknown"

NPI: "ISDN/ telephone numbering plan"

Dialling number string: "9876"

CONNECT 1.3.2

Logically:

Transaction identifier

Ti value: 0 (bit 5-7)

Ti flag: 1 (bit 8)

DISCONNECT 1.3.2

Logically:

Transaction identifier

Ti value: 0 (bit 5-7)

Ti flag: 0 (bit 8)

Cause

Value: Normal call clearing

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

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

PROACTIVE COMMAND: SET UP EVENT LIST 1.4.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: UICC

Destination device: ME

Event list

Event 1: Call Connected

Coding:

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

TERMINAL RESPONSE: SET UP EVENT LIST 1.4.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

SET UP 1.4.1

Logically:

Transaction identifier

Ti value: 0 (bit 5-7)

Ti flag: 0 (bit 8)

Address

TON: "Unknown"

NPI: "ISDN/ telephone numbering plan"

Dialling number string: "9876"

CONNECT 1.4.1

Logically:

Transaction identifier

Ti value: 0 (bit 5-7)

Ti flag: 1 (bit 8)

DISCONNECT 1.4.1

Logically:

Transaction identifier

Ti value: 0 (bit 5-7)

Ti flag: 0 (bit 8)

Cause

Value: Normal call clearing

27.22.4.16.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.4.

#### 27.22.4.17 PERFORM CARD APDU

##### 27.22.4.17.1 PERFORM CARD APDU (normal)

27.22.4.17.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.17.1.2 Conformance requirement

The ME shall support the Proactive UICC: Perform Card APDU facility as defined in:

- TS 31.111 [15] clause 6.1, clause 5.2, clause 6.4.17, clause 6.6.17, clause 6.8, clause 8.6, clause 8.7, clause 8.35, clause 8.36 and clause 8.12.9.

Additionally the ME shall support multiple card operation as defined in:

- TS 31.111 [15] clause 6.4.19, clause 6.6.19, clause 6.4.18 and clause 6.6.18.

27.22.4.17.1.3 Test purpose

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

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

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

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

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

27.22.4.17.1.4 Method of test

27.22.4.17.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The TestSIM is inserted in the additional ME card reader.

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

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

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

27.22.4.17.1.4.2 Procedure

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

See ETSI TS 102 384 [26] in clause 27.22.4.17.1.4.2, Expected Sequence 1.1.

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

See ETSI TS 102 384 [26] in clause 27.22.4.17.1.4.2, Expected Sequence 1.2.

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

See ETSI TS 102 384 [26] in clause 27.22.4.17.1.4.2, Expected Sequence 1.3.

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

See ETSI TS 102 384 [26] in clause 27.22.4.17.1.4.2, Expected Sequence 1.4.

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

See ETSI TS 102 384 [26] in clause 27.22.4.17.1.4.2, Expected Sequence 1.5.

27.22.4.17.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.5.

##### 27.22.4.17.2 PERFORM CARD APDU (detachable card reader)

27.22.4.17.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.17.2.2 Conformance requirement

27.22.4.17.2.3 Test purpose

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

27.22.4.17.2.4 Method of test

27.22.4.17.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

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

The card reader shall be detached from the ME.

27.22.4.17.2.4.2 Procedure

Expected Sequence 2.1 (PERFORM CARD APDU, card reader 1, card reader detached)

See ETSI TS 102 384 [26] in clause 27.22.4.17.2.4.2, Expected Sequence 2.1.

27.22.4.17.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

#### 27.22.4.18 POWER OFF CARD

##### 27.22.4.18.1 POWER OFF CARD (normal)

27.22.4.18.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.18.1.2 Conformance requirement

The ME shall support the Proactive UICC: Power Off Card facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.18, clause 6.6.18, clause 8.6, clause 8.7, clause 8.12, clause 8.12.9, clause 5.2 and annex H.

27.22.4.18.1.3 Test purpose

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

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

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

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

27.22.4.18.1.4 Method of test

27.22.4.18.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

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

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

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

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

27.22.4.18.1.4.2 Procedure

Expected Sequence 1.1 (POWER OFF CARD, card reader 1)

See ETSI TS 102 384 [26] in clause 27.22.4.18.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (POWER OFF CARD, card reader 1, no card inserted)

See ETSI TS 102 384 [26] in clause 27.22.4.18.1.4.2, Expected Sequence 1.2.

27.22.4.18.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.2.

##### 27.22.4.18.2 POWER OFF CARD (detachable card reader)

27.22.4.18.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.18.2.2 Conformance requirement

Void.

27.22.4.18.2.3 Test purpose

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

27.22.4.18.2.4 Method of test

27.22.4.18.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME card reader is connected to a SIM Simulator (SIM2).

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

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

The card reader shall be detached from the ME.

27.22.4.18.2.4.2 Procedure

Expected Sequence 2.1 (POWER OFF CARD, card reader 1, no card reader attached)

See ETSI TS 102 384 [26] in clause 27.22.4.18.2.4.2, Expected Sequence 2.1.

27.22.4.18.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

#### 27.22.4.19 POWER ON CARD

##### 27.22.4.19.1 POWER ON CARD (normal)

27.22.4.19.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.19.1.2 Conformance requirement

The ME shall support the Proactive UICC: Power On Card facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.19, clause 6.6.19, clause 8.6, clause 8.7, clause 8.12, clause 8.12.9, clause 8.34, clause 5.2 and annex H.

27.22.4.19.1.3 Test purpose

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

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

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

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

27.22.4.19.1.4 Method of test

27.22.4.19.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

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

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

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

27.22.4.19.1.4.2 Procedure

Expected Sequence 1.1 (POWER ON CARD, card reader 1)

See ETSI TS 102 384 [26] in clause 27.22.4.19.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (POWER ON CARD, card reader 1, no ATR)

See ETSI TS 102 384 [26] in clause 27.22.4.19.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (POWER ON CARD, card reader 1, no card inserted)

See ETSI TS 102 384 [26] in clause 27.22.4.19.1.4.2, Expected Sequence 1.3.

27.22.4.19.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

##### 27.22.4.19.2 POWER ON CARD (detachable card reader)

27.22.4.19.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.19.2.2 Conformance requirement

27.22.4.19.2.3 Test purpose

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

27.22.4.19.2.4 Method of test

27.22.4.19.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

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

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

The card reader shall be detached from the ME.

27.22.4.19.2.4.2 Procedure

Expected Sequence 2.1 (POWER ON CARD, card reader 1, no card reader attached)

See ETSI TS 102 384 [26] in clause 27.22.4.19.2.4.2, Expected Sequence 2.1.

27.22.4.19.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

#### 27.22.4.20 GET READER STATUS

##### 27.22.4.20.1 GET READER STATUS (normal)

27.22.4.20.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.20.1.2 Conformance requirement

The ME shall support the Proactive UICC: Get Card Reader Status facility as defined in:

- TS 31.111 [15] clause 6.1, clause 5.2, clause 6.4.20, clause 6.6.20, clause 6.8, clause 8.6, clause 8.7, clause 8.33, clause 8.57 and annex H.

Additionally the ME shall support multiple card operation as defined in:

- TS 31.111 [15] clause 6.4.19, clause 6.6.19, clause 6.4.18 and clause 6.6.18.

27.22.4.20.1.3 Test purpose

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

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

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

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

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

27.22.4.20.1.4 Method of test

27.22.4.20.1.4.1 Initial conditions

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

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

The elementary files are coded as USIM Application Toolkit default.

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

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

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

27.22.4.20.1.4.2 Procedure

Expected Sequence 1.1 (GET CARD READER STATUS, card reader 1, card inserted, card powered)

See ETSI TS 102 384 [26] in clause 27.22.4.20.1.4.2, Expected Sequence 1.1.

Expected Sequence 1.2 (GET CARD READER STATUS, card reader 1, card inserted, card not powered)

See ETSI TS 102 384 [26] in clause 27.22.4.20.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (GET CARD READER STATUS, card reader 1, card not present)

See ETSI TS 102 384 [26] in clause 27.22.4.20.1.4.2, Expected Sequence 1.3.

27.22.4.20.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

##### 27.22.4.20.2 GET CARD READER STATUS (detachable card reader)

27.22.4.20.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.20.2.2 Conformance requirement

Void.

27.22.4.20.2.3 Test purpose

To verify that the ME closes a session with the additional card identified in the GET CARD READER STATUS proactive UICC command, and successfully returns result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.20.2.4 Method of test

27.22.4.20.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

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

The card reader shall be detached from the ME.

27.22.4.20.2.4.2 Procedure

Expected Sequence 2.1 (GET CARD READER STATUS, no card reader attached)

See ETSI TS 102 384 [26] in clause 27.22.4.20.2.4.2, Expected Sequence 2.1.

27.22.4.20.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

#### 27.22.4.21 TIMER MANAGEMENT and ENVELOPE TIMER EXPIRATION

##### 27.22.4.21.1 TIMER MANAGEMENT (normal)

27.22.4.21.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.21.1.2 Conformance Requirement

The ME shall support the TIMER MANAGEMENT as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.21, clause 6.8, clause 8.6, clause 8.7, clause 8.37 and clause 8.38.

27.22.4.21.1.3 Test purpose

To verify that the ME manages correctly its internal timers, start a timer, deactivate a timer or return the current value of a timer according to the Timer Identifier defined in the TIMER MANAGEMENT proactive UICC command.

27.22.4.21.1.4 Method of Test

27.22.4.21.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

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

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

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

27.22.4.21.1.4.2 Procedure

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

See ETSI TS 102 384 [26] in clause 27.22.4.21.1.4.2, Expected Sequence 1.1.

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

See ETSI TS 102 384 [26] in clause 27.22.4.21.1.4.2, Expected Sequence 1.2.

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

See ETSI TS 102 384 [26] in clause 27.22.4.21.1.4.2, Expected Sequence 1.3.

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

See ETSI TS 102 384 [26] in clause 27.22.4.21.1.4.2, Expected Sequence 1.4.

Expected Sequence1.5 (TIMER MANAGEMENT, try to deactivate a timer which is not started: action in contradiction with the current timer state)

See ETSI TS 102 384 [26] in clause 27.22.4.21.1.4.2, Expected Sequence 1.5.

Expected Sequence 1.6 (TIMER MANAGEMENT, start 8 timers successfully)

See ETSI TS 102 384 [26] in clause 27.22.4.21.1.4.2, Expected Sequence 1.6.

27.22.4.21.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.6.

##### 27.22.4.21.2 ENVELOPE TIMER EXPIRATION (normal)

27.22.4.21.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.21.2.2 Conformance requirement

The ME shall support the ENVELOPE (TIMER EXPIRATION) command as defined in the following technical specifications:

- TS 31.111 [15] clause 4.10, clause 7.4.1 and clause 7.4.2.

The ME shall support the TIMER MANAGEMENT as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.21, clause 6.8, clause 8.6, clause 8.7, clause 8.37 and clause 8.38.

27.22.4.21.2.3 Test purpose

To verify that the ME shall pass the identifier of the timer that has expired and its value using the ENVELOPE (TIMER EXPIRATION) command, when a timer previously started in a TIMER MANAGEMENT proactive command expires.

27.22.4.21.2.4 Method of test

27.22.4.21.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

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

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

The timer 1 is not started.

When the UICC is busy when the envelope TIMER EXPIRATION is sent, either the ME retries periodically to send the envelope or it waits for a status not indicating busy.

27.22.4.21.2.4.2 Procedure

Expected Sequence 2.1 (TIMER EXPIRATION, pending proactive UICC command)

See ETSI TS 102 384 [26] in clause 27.22.4.21.2.4.2, Expected Sequence 2.1.

Expected Sequence 2.2 (TIMER EXPIRATION, UICC application toolkit busy)

See ETSI TS 102 384 [26] in clause 27.22.4.21.2.4.2, Expected Sequence 2.2.

27.22.4.21.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.2.

#### 27.22.4.22 SET UP IDLE MODE TEXT

##### 27.22.4.22.1 SET UP IDLE MODE TEXT (normal)

27.22.4.22.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.1.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 6.4.7 and clause 6.6.13.

Additionally the ME shall support the REFRESH proactive UICC facility as defined in:

- TS 31.111 [15] clause 5.2, clause 6.1, clause 6.4.7, clause 6.6.13, clause 6.11, clause 8.6, clause 8.7, clause 8.12, clause 9.4 and clause 10.

27.22.4.22.1.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text.

27.22.4.22.1.4 Method of test

27.22.4.22.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.22.1.4.2 Procedure

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

See ETSI TS 102 384 [26] in clause 27.22.4.22.1.4.2, Expected Sequence 1.1.

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

See ETSI TS 102 384 [26] in clause 27.22.4.22.1.4.2, Expected Sequence 1.2.

Expected Sequence 1.3 (SET UP IDLE MODE TEXT, remove idle mode text)

See ETSI TS 102 384 [26] in clause 27.22.4.22.1.4.2, Expected Sequence 1.3.

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1 | ["Idle Mode Text"] |
| 4 | ME → UICC | TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1 | [Command performed successfully] |
| 5 | USER → ME | Select idle screen | Only if idle screen not already available |
| 6 | ME → USER | Display "Idle Mode Text" |  |
| 7 | USS → ME | SMS PP 1.4.1 | [Display immediate SMS] |
| 8 | ME → USER | Display "Test Message" |  |
| 9 | USER → ME | Clear display and select idle screen |  |
| 10 | ME → USER | Display "Idle Mode Text" |  |
| 11 | UICC → ME | PROACTIVE COMMAND PENDING: DISPLAY TEXT 1.4.1 |  |
| 12 | ME → UICC | FETCH |  |
| 13 | UICC → ME | PROACTIVE COMMAND: DISPLAY TEXT 1.4.1 | [Normal priority, wait for user to clear message, unpacked, 8 bit data] |
| 14 | ME → USER | Display "Toolkit Test 1" |  |
| 15 | USER → ME | Clear Message |  |
| 16 | ME → UICC | TERMINAL RESPONSE: DISPLAY TEXT 1.4.1 | [Command performed successfully] |
| 17 | ME → USER | Display "Idle Mode Text" |  |
| 18 | UICC → ME | PROACTIVE COMMAND PENDING: PLAY TONE 1.4.1 |  |
| 19 | ME → UICC | FETCH |  |
| 20 | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.4.1 |  |
| 21 | ME → USER | Display "Dial Tone" Play a standard supervisory dial tone through the external ringer for a duration of 5 s |  |
| 22 | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.4.1 | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |
| 24 | ME → USER | Display "Idle Mode Text" |  |

SMS-PP 1.4.1

Logically:

SMS TPDU

TP-MTI SMS-DELIVER

TP-MMS No more messages waiting for the MS in this SC

TP-RP TP-Reply-Path is not set in this SMS-DELIVER

TP-UDHI TP-UD field contains only the short message

TP-SRI A status report will not be returned to the ME

TP-OA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "1234"

TP-PID "00"

TP-DCS

Coding Group General Data Coding

Compression Text is uncompressed

Message Class Class 0

Alphabet GSM 7 bit default alphabet

TP-SCTS: 01/01/98 00:00:00 +0

TP-UDL 12

TP-UD "Test Message"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 04 | 04 | 91 | 21 | 43 | 00 | 10 | 89 | 10 | 10 | 00 | 00 |
|  | 00 | 00 | 0C | D4 | F2 | 9C | 0E | 6A | 96 | E7 | F3 | F0 |
|  | B9 | 0C |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: DISPLAY TEXT 1.4.1

Logically:

Command details

Command number: 1

Command type: DISPLAY TEXT

Command qualifier: normal priority, wait for user to clear message

Device identities

Source device: UICC

Destination device: Display

Text String

Data coding scheme: unpacked, 8 bit data

Text: "Toolkit Test 1"

Coding:

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

TERMINAL RESPONSE: DISPLAY TEXT 1.4.1

Logically:

Command details

Command number: 1

Command type: DISPLAY TEXT

Command qualifier: normal priority, wait for user to clear message

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

PROACTIVE COMMAND: PLAY TONE 1.4.1

Logically:

Command details

Command number: 1

Command type: PLAY TONE

Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Earpiece

Alpha identifier: "Dial Tone"

TONe: Standard supervisory tones: dial tone

Duration

Time unit: Seconds

Time interval: 5

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 1B | 81 | 03 | 01 | 20 | 00 | 82 | 02 | 81 | 03 | 85 |
|  | 09 | 44 | 69 | 61 | 6C | 20 | 54 | 6F | 6E | 65 | 8E | 01 |
|  | 01 | 84 | 02 | 01 | 05 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: PLAY TONE 1.4.1

Logically:

Command details

Command number: 1

Command type: PLAY TONE

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 20 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

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

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

Expected Sequence 1.6 (SET UP IDLE MODE TEXT, REFRESH with USIM Initialization)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP IDLE MODE TEXT 1.1.1 | [Idle Mode Text] |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: SET UP IDLE MODE TEXT 1.1.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: SET UP IDLE MODE TEXT 1.1.1 |  |
| 5 | USER → ME | Select idle screen | Only if idle screen not already available |
| 6 | ME → USER | Display "Idle Mode Text" |  |
| 7 | UICC → ME | PROACTIVE COMMAND PENDING: REFRESH 1.6.1 |  |
| 8 | ME → UICC | FETCH |  |
| 9 | UICC → ME | PROACTIVE COMMAND: REFRESH 1.6.1 | [USIM Initialization] |
| 10 | ME ⇔ UICC | USIM INITIALIZATION |  |
| 11 | USER → ME | Select idle screen | Only if idle screen not already available |
| 12 | ME → USER | Display idle screen / "Idle Mode Text" not to be displayed |  |
| 13 | ME → UICC | TERMINAL RESPONSE: REFRESH 1.6.1A or TERMINAL RESPONSE: REFRESH 1.6.1B | [Command performed successfully] [Command performed successfully with additional files read] |
| 14 | UICC → ME | PROACTIVE UICC SESSION ENDED |  |

PROACTIVE COMMAND: REFRESH 1.6.1

Logically:

Command details

Command number: 1

Command type: REFRESH

Command qualifier: USIM Initialization

Device identities

Source device: UICC

Destination device: ME

Coding:

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

TERMINAL RESPONSE: REFRESH 1.6.1A

Logically:

Command details

Command number: 1

Command type: REFRESH

Command qualifier: USIM Initialization

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: REFRESH 1.6.1B

Logically:

Command details

Command number: 1

Command type: REFRESH

Command qualifier: USIM Initialization

Device identities

Source device: ME

Destination device: UICC

Result

General Result: REFRESH performed with additional EFs read

Coding:

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

Expected Sequence 1.7 (SET UP IDLE MODE TEXT, large text string)

See ETSI TS 102 384 [26] in clause 27.22.4.22.1.4.2, Expected Sequence 1.7.

27.22.4.22.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.7.

##### 27.22.4.22.2 SET UP IDLE MODE TEXT (Icon support)

27.22.4.22.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.2.2 Conformance requirement

27.22.4.22.2.3 Test purpose

To verify that the ME text and / or icon passed to the ME is displayed by the ME as an idle mode text.

To verify that the icon identifier provided with the text string can replace the text string or accompany it.

To verify that if both an alpha identifier or text string, and an icon are provided with a proactive command, and both are requested to be displayed, but the ME is not able to display both together on the screen, then the alpha identifier or text string takes precedence over the icon.

To verify that if the UICC provides an icon identifier with a proactive command, then the ME shall inform the UICC if the icon could not be displayed by sending the general result "Command performed successfully, but requested icon could not be displayed".

To verify that if the ME receives an icon identifier with a proactive command, and either an empty, or no alpha identifier / text string is given by the UICC, than the ME shall reject the command with general result "Command data not understood by ME".

27.22.4.22.2.4 Method of test

27.22.4.22.2.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in update idle mode on the System Simulator.

27.22.4.22.2.4.2 Procedure

Expected Sequence 2.1A (SET UP IDLE MODE TEXT, Icon is self-explanatory, successful)

See ETSI TS 102 384 [26] in clause 27.22.4.22.2.4.2, Expected Sequence 2.1A.

Expected Sequence 2.1B (SET UP IDLE MODE TEXT, Icon is self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in clause 27.22.4.22.2.4.2, Expected Sequence 2.1B.

Expected Sequence 2.2A (SET UP IDLE MODE TEXT, Icon is not self-explanatory, successful)

See ETSI TS 102 384 [26] in clause 27.22.4.22.2.4.2, Expected Sequence 2.2A.

Expected Sequence 2.2B (SET UP IDLE MODE TEXT, Icon is not self-explanatory, requested icon could not be displayed)

See ETSI TS 102 384 [26] in clause 27.22.4.22.2.4.2, Expected Sequence 2.2B.

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

See ETSI TS 102 384 [26] in clause 27.22.4.22.2.4.2, Expected Sequence 2.3A.

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

See ETSI TS 102 384 [26] in clause 27.22.4.22.2.4.2, Expected Sequence 2.3B.

Expected Sequence 2.4 (SET UP IDLE MODE TEXT, Icon is not self-explanatory, empty text string)

See ETSI TS 102 384 [26] in clause 27.22.4.22.2.4.2, Expected Sequence 2.4.

27.22.4.22.2.5 Test requirement

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

##### 27.22.4.22.3 SET UP IDLE MODE TEXT (UCS2 support)

27.22.4.22.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.3.2 Conformance requirement

The ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

27.22.4.22.3.3 Test purpose

To verify that the UCS2 coded text string is displayed by the ME as an idle mode text.

27.22.4.22.3.4 Method of test

27.22.4.22.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in update idle mode on the System Simulator..

27.22.4.22.3.4.2 Procedure

Expected Sequence 3.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text)

See ETSI TS 102 384 [26] in clause 27.22.4.22.3.4.2, Expected Sequence 3.1.

27.22.4.22.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

##### 27.22.4.22.4 SET UP IDLE MODE TEXT (support of Text Attribute)

27.22.4.22.4.1 SET UP IDLE MODE TEXT (support of Text Attribute – Left Alignment)

27.22.4.22.4.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.1.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.1.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the left alignment text attribute configuration.

27.22.4.22.4.1.4 Method of test

27.22.4.22.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.22.4.1.4.2 Procedure

Expected Sequence 4.1 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Left Alignment)

See ETSI TS 102 384 [26] in clause 27.22.4.22.4.1.4.2, Expected Sequence 4.1.

27.22.4.22.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.22.4.2 SET UP IDLE MODE TEXT (support of Text Attribute – Center Alignment)

27.22.4.22.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.2.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.2.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the center alignment text attribute configuration.

27.22.4.22.4.2.4 Method of test

27.22.4.22.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.22.4.2.4.2 Procedure

Expected Sequence 4.2 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Center Alignment)

See ETSI TS 102 384 [26] in clause 27.22.4.22.4.2.4.2, Expected Sequence 4.2.

27.22.4.22.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.22.4.3 SET UP IDLE MODE TEXT (support of Text Attribute – Right Alignment)

27.22.4.22.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.3.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.3.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the right alignment text attribute configuration.

27.22.4.22.4.3.4 Method of test

27.22.4.22.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.22.4.3.4.2 Procedure

Expected Sequence 4.3 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Right Alignment)

See ETSI TS 102 384 [26] in clause 27.22.4.22.4.3.4.2, Expected Sequence 4.3.

27.22.4.22.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.22.4.4 SET UP IDLE MODE TEXT (support of Text Attribute – Large Font Size)

27.22.4.22.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.4.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.4.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the large font size text attribute configuration.

27.22.4.22.4.4.4 Method of test

27.22.4.22.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.22.4.4.4.2 Procedure

Expected Sequence 4.4 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Large Font Size)

See ETSI TS 102 384 [26] in clause 27.22.4.22.4.4.4.2, Expected Sequence 4.4.

27.22.4.22.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.22.4.5 SET UP IDLE MODE TEXT (support of Text Attribute – Small Font Size)

27.22.4.22.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.5.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.5.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the small font size text attribute configuration.

27.22.4.22.4.5.4 Method of test

27.22.4.22.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.22.4.5.4.2 Procedure

Expected Sequence 4.5 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Small Font Size)

See ETSI TS 102 384 [26] in clause 27.22.4.22.4.5.4.2, Expected Sequence 4.5.

27.22.4.22.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.22.4.6 SET UP IDLE MODE TEXT (support of Text Attribute – Bold On)

27.22.4.22.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.6.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.6.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the bold text attribute configuration.

27.22.4.22.4.6.4 Method of test

27.22.4.22.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.22.4.6.4.2 Procedure

Expected Sequence 4.6 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Bold On)

See ETSI TS 102 384 [26] in clause 27.22.4.22.4.6.4.2, Expected Sequence 4.6.

27.22.4.22.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.22.4.7 SET UP IDLE MODE TEXT (support of Text Attribute – Italic On)

27.22.4.22.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.7.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.7.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the italic text attribute configuration.

27.22.4.22.4.7.4 Method of test

27.22.4.22.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.22.4.7.4.2 Procedure

Expected Sequence 4.7 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Italic On)

See ETSI TS 102 384 [26] in clause 27.22.4.22.4.7.4.2, Expected Sequence 4.7.

27.22.4.22.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.22.4.8 SET UP IDLE MODE TEXT (support of Text Attribute – Underline On)

27.22.4.22.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.8.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.8.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the underline text attribute configuration.

27.22.4.22.4.8.4 Method of test

27.22.4.22.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.22.4.8.4.2 Procedure

Expected Sequence 4.8 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Underline On)

See ETSI TS 102 384 [26] in clause 27.22.4.22.4.8.4.2, Expected Sequence 4.8.

27.22.4.22.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.22.4.9 SET UP IDLE MODE TEXT (support of Text Attribute – Strikethrough On)

27.22.4.22.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.9.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.9.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the strikethrough text attribute configuration.

27.22.4.22.4.9.4 Method of test

27.22.4.22.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.22.4.9.4.2 Procedure

Expected Sequence 4.9 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Strikethrough On)

See ETSI TS 102 384 [26] in clause 27.22.4.22.4.9.4.2, Expected Sequence 4.9.

27.22.4.22.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.22.4.10 SET UP IDLE MODE TEXT (support of Text Attribute – Foreground and Background Colour)

27.22.4.22.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.10.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.10.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the foreground and background colour text attribute configuration.

27.22.4.22.4.10.4 Method of test

27.22.4.22.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

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

27.22.4.22.4.10.4.2 Procedure

Expected Sequence 4.10 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Foreground and Background Colour)

See ETSI TS 102 384 [26] in clause 27.22.4.22.4.10.4.2, Expected Sequence 4.10.

27.22.4.22.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

##### 27.22.4.22.5 SET UP IDLE MODE TEXT (UCS2 display in Chinese)

27.22.4.22.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.5.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

The Terminal shall additionally support the UCS2 facility for the coding of the Chinese character, as defined in:

ISO/IEC 10646 [17a/17b].

27.22.4.22.5.3 Test purpose

To verify that the UCS2 coded text string is displayed by the ME as an idle mode text.

27.22.4.22.5.4 Method of test

27.22.4.22.5.4.1 Initial conditions

The Terminal is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the Terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.22.5.4.2 Procedure

Expected Sequence 5.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text in Chinese)

See ETSI TS 102 384 [26] in clause 27.22.4.22.5.4.2, Expected Sequence 5.1.

27.22.4.22.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

##### 27.22.4.22.6 SET UP IDLE MODE TEXT (UCS2 display in Katakana)

27.22.4.22.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.6.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

The ME shall additionally support the UCS2 facility for the coding of the Katakana character, as defined in:

ISO/IEC 10646 [17a/17b].

27.22.4.22.6.3 Test purpose

To verify that the UCS2 coded text string is displayed by the ME as an idle mode text.

27.22.4.22.6.4 Method of test

27.22.4.22.6.4.1 Initial conditions

The ME is connected to both the UICC Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.22.6.4.2 Procedure

**Expected Sequence 6.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text in Katakana)**

See ETSI TS 102 384 [26] in clause 27.22.4.22.6.4.2, Expected Sequence 6.1.

27.22.4.22.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.