#### 27.22.4.27 OPEN CHANNEL

##### 27.22.4.27.1 Void

##### 27.22.4.27.2 Open Channel (related to GPRS)

27.22.4.27.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.2.2 Conformance requirements

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

- TS 31.111[15] clause 5.2, clauses 6.4.27 and 6.6.27, clause 8.6, clause 8.7, clause 9.2, clause 8.2, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.27.2.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (OK); or

- TERMINAL RESPONSE (Command performed with modification); or

- TERMINAL RESPONSE (User did not accept the proactive command);

- TERMINAL RESPONSE (ME currently unable to process command);

to the UICC after the ME receives the OPEN CHANNEL proactive command. The TERMINAL RESPONSE sent back to the UICC is the result of the ME and the network capabilities against requested parameters by the UICC.

27.22.4.27.2.4 Method of test

27.22.4.27.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

The following Bearer Parameters used are those defined in the default Test PDP context for test cases using packet services:

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP ContextDch, as specified in TS 34.123-3 [27], clause 8.10 for test cases using packet services:

Bearer Parameters

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs

User login: UserLog

User password: UserPwd

UICC/ME interface transport level

Transport format: UDP or TCP mode

Port number: 44444

Data destination address 01.01.01.01 (as an example)

Note: If a data destination address different to 01.01.01.01 is used then the same value is used in the content of the affected Open Channel commands and the network simulator setup and related UE settings might require a corresponding adaptation.

Prior to test case execution the apparatus supplier shall have provided the "Preferred buffer size supported by the terminal for Open Channel command" as requested in table A.2/29.

Pre-condition for successful execution of expected sequence 2.1:

If the terminal does not support the execution of an Open Channel (GPRS) command when no Network Access Name TLV is present in the proactive command and when no default Access Point Name is set in the terminal configuration (s.a. table A.1/48), then "TestGp.rs" shall be set and activated as default Access Point Name in the terminal configuration prior to execution of the proactive command in expected sequence 2.1.

27.22.4.27.2.4.2 Procedure

Expected Sequence 2.1 void

NOTE: The above sequence has been made void, however the messages defined below are still required for further test sequences.

PROACTIVE COMMAND: OPEN CHANNEL 2.1.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 36 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 07 | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.1.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.1.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 2.2.1 |  |
| 4 | ME → user | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.2.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 2.2.1B | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 2.2.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 42 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 07 | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 |
|  | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.2.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer Description:

Bearer Type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.2.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer Description:

Bearer Type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

Expected Sequence 2.3 (OPEN CHANNEL, immediate link establishment, GPRS, with alpha identifier)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 2.3.1 |  |
| 4 | ME → user | Confirmation phase with alpha ID | "Open ID" |
| 5 | user → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 2.1.1B | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 2.3.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier Open ID

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4B | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 07 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 35 | 07 | 02 | 03 |
|  | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 | 0A | 06 |
|  | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 | 55 | 73 |
|  | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C | 3E | 05 |
|  | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |  |  |

Expected Sequence 2.4 (OPEN CHANNEL, immediate link establishment, GPRS, with null alpha identifier)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 2.4.1 |  |
| 4 | ME → user | Confirmation phase | [The ME should not give any information] |
| 5 | user → ME | The user confirms | [Only if the ME asks for user confirmation] |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 2.1.1B | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 2.4.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Alpha Identifier Null

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 44 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 |
|  | 05 | 78 | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 |
|  | 72 | 73 | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 |
|  | 01 | AD | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |

Expected Sequence 2.5 (OPEN CHANNEL, immediate link establishment, GPRS, command performed with modifications (buffer size) )

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.5.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 2.5.1 |  |
| 4 | ME → user | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.5.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 2.5.1B | [Command performed with modification] |

PROACTIVE COMMAND: OPEN CHANNEL 2.5.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 65535

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 42 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 07 | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | FF | FF |
|  | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.5.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed with modifications (07)

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: The buffer size TLV shall be attached and contain the value stated in table A.2/29 "Preferred buffer size supported by the terminal for Open Channel command".

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 07 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | Note 1 |  |  |  |  |  |  |  |  |  |  |

Note1: The buffer size TLV shall be attached and contain the value stated in table A.2/29 "Preferred buffer size supported by the terminal for Open Channel command".

TERMINAL RESPONSE: OPEN CHANNEL 2.5.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed with modifications (07)

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: The buffer size TLV shall be attached and contain the value stated in table A.2/29 "Preferred buffer size supported by the terminal for Open Channel command".

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 07 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | Note 1 |  |  |  |  |  |  |  |  |  |  |

Note1: The buffer size TLV shall be attached and contain the value stated in table A.2/29 "Preferred buffer size supported by the terminal for Open Channel command".

Expected Sequence 2.6 Void

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.7.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 2.7.1 |  |
| 4 | ME → user | Confirmation phase with alpha ID | [The ME shall display "Open ID"] |
| 5 | user → ME | The user rejects |  |
| 6 | ME → USS | No PDP context activation request is sent to the USS |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.7.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 2.7.1B | [User did not accept the proactive command] |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.7.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 2.7.1 |  |
| 4 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 5 | USS → ME | PDP context activation accept |  |
| 6 | ME → user | Confirmation phase with alpha ID | [The ME shall display "Open ID"] |
| 7 | user → ME | The user rejects |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.7.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 2.7.1B | [User did not accept the proactive command] |

PROACTIVE COMMAND: OPEN CHANNEL 2.7.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4B | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 07 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 35 | 07 | 02 | 03 |
|  | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 | 0A | 06 |
|  | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 | 55 | 73 |
|  | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C | 3E | 05 |
|  | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.7.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: User did not accept the proactive command

Channel status The presence and content of this TLV shall not be verified

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: Because the value depends in this case on the terminal's implementation, it shall be ignored.

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 22 |
|  | Note 1 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F | 02 | Note 2 |  |
|  | Note1: The presence and content of the Channel Status TLV shall not be verified.  Note2: The buffer size TLV shall be present and because the value depends in this case on the terminal's implementation, the value shall be ignored. | | | | | | | | | | | |

TERMINAL RESPONSE: OPEN CHANNEL 2.7.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: User did not accept the proactive command

Channel status The presence and content of this TLV shall not be verifiedBearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: Because the value depends in this case on the terminal's implementation, it shall be ignored.

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 22 |
|  | Note 1 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F | 02 | Note 2 |  |
|  | Note1: The presence and content of the Channel Status TLV shall not be verified.  Note2: The buffer size TLV shall be present and because the value depends in this case on the terminal's implementation, the value shall be ignored. | | | | | | | | | | | |

Expected Sequence 2.8 Void

Expected Sequence 2.9 (OPEN CHANNEL, immediate link establishment, no alpha identifier, with network access name)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.9.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 2.9.1 |  |
| 4 | ME → user | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.9.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 2.9.1B | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 2.9.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: GPRS / UTRAN packet service / E-UTRAN

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: TCP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 42 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 07 | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 |
|  | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 02 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.9.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer Description:

Bearer Type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.9.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer Description:

Bearer Type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

Expected Sequence 2.10 (OPEN CHANNEL, multi Open Channel, one in TCP Server mode and one in TCP Client mode)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.10.1 | TCP server mode |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 2.10.1 |  |
| 4 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.10.1 | [Command performed successfully]  TCP in LISTEN state |
| 5 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 2.10.2 | TCP Client mode |
| 6 | ME → UICC | FETCH |  |
| 7 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 2.10.2 |  |
| 8 | ME → user | The ME may display channel opening information |  |
| 9 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 10 | USS → ME | PDP context activation accept |  |
| 11 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.10.2A  or  TERMINAL RESPONSE: OPEN CHANNEL 2.10.2B | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 2.10.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier Null

Buffer

Buffer size: 1400

UICC/terminal interface transport level

Transport format: TCP, UICC in server mode

Port number: 3516

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 14 | 81 | 03 | 01 | 40 | 00 | 82 | 02 | 81 | 82 | 05 |
|  | 00 | 39 | 02 | 05 | 78 | 3C | 03 | 03 | 0D | BC |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.10.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 1 and TCP in LISTEN state

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 41 | 00 | 39 | 02 | 05 | 78 |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 2.10.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: GPRS / UTRAN packet service / E-UTRAN

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: TCP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 42 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 07 | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 |
|  | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 02 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.10.2A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 2 and link established or PDP context activated

Bearer Description:

Bearer Type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 82 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 2.10.2B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 2 and link established or PDP context activated

Bearer Description:

Bearer Type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 82 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.2 to 2.10.

##### 27.22.4.27.3 Open Channel (default bearer)

27.22.4.27.3.1 Open Channel (default bearer, E-UTRAN)

Open Channel for Default (network) Bearer for E-UTRAN is tested in clause 27.22.4.27.6, expected sequences 6.4 and 6.5.

27.22.4.27.3.2 Open Channel (Default bearer, GERAN/UTRAN)

27.22.4.27.3.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.3.2.2 Conformance requirements

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

- TS 31.111[15] clause 5.2, clauses 6.4.27 and 6.6.27, clause 8.2, clause 8.6, clause 8.7, clause 8.52, clause 8.55, 8.59 and clause 9.2,

27.22.4.27.3.2.3 Test purpose

To verify that the ME allocates the buffer, activates the PDP context and reports the Channel status using TERMINAL RESPONSE (Command performed successfully) to the UICC after the ME receives the OPEN CHANNEL proactive command.

27.22.4.27.3.2.4 Method of test

27.22.4.27.3.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

The following Bearer Parameters used are those defined in the default Test PDP context for test cases using packet services:

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP ContextDch, as specified in TS 34.123-3 [27], clause 8.10 for test cases using packet services:

Bearer Parameters

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

GPRS Parameters

Network access name: TestGp.rs

User login: UserLog

User password: UserPwd

UICC/ME interface transport level

Transport format: TCP mode

Port number: 44444

Data destination address 01.01.01.01 (as an example)

Note: If a data destination address different to 01.01.01.01 is used then the same value is used in the content of the affected Open Channel commands and the network simulator setup and related UE settings might require a corresponding adaptation.

Pre-condition for successful execution of expected sequence x.1:

If the terminal does not support the execution of an Open Channel (GPRS) command when no Network Access Name TLV is present in the proactive command and when no default Access Point Name is set in the terminal configuration (s.a. table A.1/48), then "TestGp.rs" shall be set and activated as default Access Point Name in the terminal configuration prior to execution of the proactive command in expected sequence x.1.

27.22.4.27.3.2.4.2 Procedure

Expected Sequence 3.1 (OPEN CHANNEL, Default Bearer, GPRS, with null alpha identifier)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 3.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 3.1.1 |  |
| 4 | ME → User | [The ME should not give any information] | [If the ME ask for user confirmation, then the user shall confirm the Open Channel request] |
| 5 | ME → USS | PDP context activation request | [The ME may have activated a PDP context at earlier stage. In this case a PDP context activation at this point might not be required if the existing PDP context is reused.]  [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 3.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 3.1.1B | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 3.1.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment, automatic reconnection

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier Null

Bearer

Bearer type: Default bearer for requested transport layer

Buffer

Buffer size: 1400

UICC/ME interface transport level

Transport format: TCP, UICC in client mode, remote connection

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 1E | 81 | 03 | 01 | 40 | 03 | 82 | 02 | 81 | 82 | 85 |
|  | 00 | 35 | 01 | 03 | 39 | 02 | 05 | 78 | 3C | 03 | 02 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 3.1.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment, automatic reconnection

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer

Bearer type: Default bearer for requested transport layer

Buffer

Buffer size: 1400

Coding:

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

TERMINAL RESPONSE: OPEN CHANNEL 3.1.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment, automatic reconnection

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 03 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.3.2.5 Test requirement

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

##### 27.22.4.27.4 Open Channel (Local Bearer)

TBD

##### 27.22.4.27.5 Open Channel (GPRS, support of Text Attribute)

27.22.4.27.5.1 Open Channel (GPRS, support of Text Attribute – Left Alignment)

27.22.4.27.5.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.1.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.27.5.1.3 Test purpose

To verify that the ME displays an alpha identifier according to the left alignment text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.1.4 Method of test

27.22.4.27.5.1.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.27.5.1.4.2 Procedure

Expected Sequence 5.1 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Left Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.1.1 |  |
| 4 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with left alignment] |
| 5 | USER → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.1.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 12 | ME → USS | PDP context deactivation request |  |
| 13 | USS → ME | PDP context deactivation accept |  |
| 14 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.2 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.1.2 |  |
| 18 | ME → USER | Confirmation phase with alpha ID | [Message shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/19, no alignment change will take place] |
| 19 | USER → ME | The user confirms |  |
| 20 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 21 | USS → ME | PDP context activation accept |  |
| 22 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.1.1B | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 24 | ME → UICC | FETCH |  |
| 25 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 26 | ME → USS | PDP context deactivation request |  |
| 27 | USS → ME | PDP context deactivation accept |  |
| 28 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 5.1.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 1"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 31 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 00 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.1.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 2"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 32 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel

Alpha Identifier "Close ID"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 14 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 08 | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.1.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.1.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.27.5.1.5 Test Requirement

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

27.22.4.27.5.2 Open Channel (GPRS, support of Text Attribute – Center Alignment)

27.22.4.27.5.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.2.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.27.5.2.3 Test purpose

To verify that the ME displays an alpha identifier according to the center alignment text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.2.4 Method of test

27.22.4.27.5.2.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.27.5.2.4.2 Procedure

Expected Sequence 5.2 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Center Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.2.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.2.1 |  |
| 4 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with center alignment] |
| 5 | USER → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.2.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.2.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 12 | ME → USS | PDP context deactivation request |  |
| 13 | USS → ME | PDP context deactivation accept |  |
| 14 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.2.2 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.2.2 |  |
| 18 | ME → USER | Confirmation phase with alpha ID | [Message shall be formatted without center alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/19, no alignment change will take place] |
| 19 | USER → ME | The user confirms |  |
| 20 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 21 | USS → ME | PDP context activation accept |  |
| 22 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.2.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.2.1B | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 24 | ME → UICC | FETCH |  |
| 25 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 26 | ME → USS | PDP context deactivation request |  |
| 27 | USS → ME | PDP context deactivation accept |  |
| 28 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 5.2.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 1"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 31 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 01 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.2.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 2"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 32 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.2.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.2.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.5.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.2.

27.22.4.27.5.3 Open Channel (GPRS, support of Text Attribute – Right Alignment)

27.22.4.27.5.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.3.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.27.5.3.3 Test purpose

To verify that the ME displays an alpha identifier according to the right alignment text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.3.4 Method of test

27.22.4.27.5.3.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.27.5.3.4.2 Procedure

Expected Sequence 5.3 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Right Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.3.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.3.1 |  |
| 4 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with right alignment] |
| 5 | USER → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.3.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.3.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 12 | ME → USS | PDP context deactivation request |  |
| 13 | USS → ME | PDP context deactivation accept |  |
| 14 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.3.2 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.3.2 |  |
| 18 | ME → USER | Confirmation phase with alpha ID | [Message shall be formatted without right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/19, no alignment change will take place] |
| 19 | USER → ME | The user confirms |  |
| 20 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 21 | USS → ME | PDP context activation accept |  |
| 22 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.3.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.3.1B | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 24 | ME → UICC | FETCH |  |
| 25 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 26 | ME → USS | PDP context deactivation request |  |
| 27 | USS → ME | PDP context deactivation accept |  |
| 28 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 5.3.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 1"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 31 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 02 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.3.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 2"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 32 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.3.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.3.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.5.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.3.

27.22.4.27.5.4 Open Channel (GPRS, support of Text Attribute – Large Font Size)

27.22.4.27.5.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.4.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.27.5.4.3 Test purpose

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

27.22.4.27.5.4.4 Method of test

27.22.4.27.5.4.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.27.5.4.4.2 Procedure

Expected Sequence 5.4 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Large Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.4.1 |  |
| 4 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with large font size] |
| 5 | USER → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.4.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.4.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 12 | ME → USS | PDP context deactivation request |  |
| 13 | USS → ME | PDP context deactivation accept |  |
| 14 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.2 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.4.2 |  |
| 18 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with normal font size] |
| 19 | USER → ME | The user confirms |  |
| 20 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 21 | USS → ME | PDP context activation accept |  |
| 22 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.4.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.4.1B | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 24 | ME → UICC | FETCH |  |
| 25 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 26 | ME → USS | PDP context deactivation request |  |
| 27 | USS → ME | PDP context deactivation accept |  |
| 28 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 29 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1 |  |
| 30 | ME → UICC | FETCH |  |
| 31 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.4.1 |  |
| 32 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with large font size] |
| 33 | USER → ME | The user confirms |  |
| 34 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 35 | USS → ME | PDP context activation accept |  |
| 36 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.4.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.4.1B | [Command performed successfully] |
| 37 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 38 | ME → UICC | FETCH |  |
| 39 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 40 | ME → USS | PDP context deactivation request |  |
| 41 | USS → ME | PDP context deactivation accept |  |
| 42 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 43 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.3 |  |
| 44 | ME → UICC | FETCH |  |
| 45 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.4.3 |  |
| 46 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with normal font size] |
| 47 | USER → ME | The user confirms |  |
| 48 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 49 | USS → ME | PDP context activation accept |  |
| 50 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.4.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.4.1B | [Command performed successfully] |
| 51 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 52 | ME → UICC | FETCH |  |
| 53 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 54 | ME → USS | PDP context deactivation request |  |
| 55 | USS → ME | PDP context deactivation accept |  |
| 56 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 5.4.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 1"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 31 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 04 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.4.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 2"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 32 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 00 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.4.3

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 3"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 33 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.4.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.4.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.5.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.4.

27.22.4.27.5.5 Open Channel (GPRS, support of Text Attribute – Small Font Size)

27.22.4.27.5.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.5.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.27.5.5.3 Test purpose

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

27.22.4.27.5.5.4 Method of test

27.22.4.27.5.5.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.27.5.5.4.2 Procedure

Expected Sequence 5.5 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Small Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.5.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.5.1 |  |
| 4 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with small font size] |
| 5 | USER → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.5.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.5.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 12 | ME → USS | PDP context deactivation request |  |
| 13 | USS → ME | PDP context deactivation accept |  |
| 14 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.5.2 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.5.2 |  |
| 18 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with normal font size] |
| 19 | USER → ME | The user confirms |  |
| 20 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 21 | USS → ME | PDP context activation accept |  |
| 22 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.5.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.5.1B | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 24 | ME → UICC | FETCH |  |
| 25 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 26 | ME → USS | PDP context deactivation request |  |
| 27 | USS → ME | PDP context deactivation accept |  |
| 28 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 29 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.5.1 |  |
| 30 | ME → UICC | FETCH |  |
| 31 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.5.1 |  |
| 32 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with small font size] |
| 33 | USER → ME | The user confirms |  |
| 34 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 35 | USS → ME | PDP context activation accept |  |
| 36 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.5.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.5.1B | [Command performed successfully] |
| 37 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 38 | ME → UICC | FETCH |  |
| 39 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 40 | ME → USS | PDP context deactivation request |  |
| 41 | USS → ME | PDP context deactivation accept |  |
| 42 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 43 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.5.3 |  |
| 44 | ME → UICC | FETCH |  |
| 45 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.5.3 |  |
| 46 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with normal font size] |
| 47 | USER → ME | The user confirms |  |
| 48 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 49 | USS → ME | PDP context activation accept |  |
| 50 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.5.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.5.1B | [Command performed successfully] |
| 51 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 52 | ME → UICC | FETCH |  |
| 53 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 54 | ME → USS | PDP context deactivation request |  |
| 55 | USS → ME | PDP context deactivation accept |  |
| 46 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 5.5.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 1"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 31 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 08 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.5.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 2"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 32 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 00 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.5.3

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 3"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 33 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.5.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.5.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.5.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.5.

27.22.4.27.5.6 Open Channel (GPRS, support of Text Attribute – Bold On)

27.22.4.27.5.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.6.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.27.5.6.3 Test purpose

To verify that the ME displays an alpha identifier according to the bold text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.6.4 Method of test

27.22.4.27.5.6.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.27.5.6.4.2 Procedure

Expected Sequence 5.6 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Bold On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.6.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.6.1 |  |
| 4 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with bold on] |
| 5 | USER → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.6.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.6.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 12 | ME → USS | PDP context deactivation request |  |
| 13 | USS → ME | PDP context deactivation accept |  |
| 14 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.6.2 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.6.2 |  |
| 18 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with bold off] |
| 19 | USER → ME | The user confirms |  |
| 20 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 21 | USS → ME | PDP context activation accept |  |
| 22 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.6.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.6.1B | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 24 | ME → UICC | FETCH |  |
| 25 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 26 | ME → USS | PDP context deactivation request |  |
| 27 | USS → ME | PDP context deactivation accept |  |
| 28 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 29 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.6.1 |  |
| 30 | ME → UICC | FETCH |  |
| 31 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.6.1 |  |
| 32 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with bold on] |
| 33 | USER → ME | The user confirms |  |
| 34 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 35 | USS → ME | PDP context activation accept |  |
| 36 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.6.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.6.1B | [Command performed successfully] |
| 37 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 38 | ME → UICC | FETCH |  |
| 39 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 40 | ME → USS | PDP context deactivation request |  |
| 41 | USS → ME | PDP context deactivation accept |  |
| 42 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 43 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.6.3 |  |
| 44 | ME → UICC | FETCH |  |
| 45 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.6.3 |  |
| 46 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with bold off] |
| 47 | USER → ME | The user confirms |  |
| 48 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 49 | USS → ME | PDP context activation accept |  |
| 50 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.6.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.6.1B | [Command performed successfully] |
| 51 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 52 | ME → UICC | FETCH |  |
| 53 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 54 | ME → USS | PDP context deactivation request |  |
| 55 | USS → ME | PDP context deactivation accept |  |
| 56 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 5.6.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 1"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 31 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 10 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.6.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 2"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 32 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 00 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.6.3

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 3"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 33 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.6.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.6.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.5.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.6.

27.22.4.27.5.7 Open Channel (GPRS, support of Text Attribute – Italic On)

27.22.4.27.5.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.7.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.27.5.7.3 Test purpose

To verify that the ME displays an alpha identifier according to the italic text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.7.4 Method of test

27.22.4.27.5.7.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.27.5.7.4.2 Procedure

Expected Sequence 5.7 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Italic On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.7.1 |  |
| 4 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with italic on] |
| 5 | USER → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.7.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.7.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 12 | ME → USS | PDP context deactivation request |  |
| 13 | USS → ME | PDP context deactivation accept |  |
| 14 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.2 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.7.2 |  |
| 18 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with italic off] |
| 19 | USER → ME | The user confirms |  |
| 20 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 21 | USS → ME | PDP context activation accept |  |
| 22 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.7.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.7.1B | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 24 | ME → UICC | FETCH |  |
| 25 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 26 | ME → USS | PDP context deactivation request |  |
| 27 | USS → ME | PDP context deactivation accept |  |
| 28 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 29 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.1 |  |
| 30 | ME → UICC | FETCH |  |
| 31 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.7.1 |  |
| 32 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with italic on] |
| 33 | USER → ME | The user confirms |  |
| 34 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 35 | USS → ME | PDP context activation accept |  |
| 36 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.7.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.7.1B | [Command performed successfully] |
| 37 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 38 | ME → UICC | FETCH |  |
| 39 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 40 | ME → USS | PDP context deactivation request |  |
| 41 | USS → ME | PDP context deactivation accept |  |
| 42 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 43 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.3 |  |
| 44 | ME → UICC | FETCH |  |
| 45 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.7.3 |  |
| 46 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with italic off] |
| 47 | USER → ME | The user confirms |  |
| 48 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 49 | USS → ME | PDP context activation accept |  |
| 50 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.7.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.7.1B | [Command performed successfully] |
| 51 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 52 | ME → UICC | FETCH |  |
| 53 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 54 | ME → USS | PDP context deactivation request |  |
| 55 | USS → ME | PDP context deactivation accept |  |
| 56 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 5.7.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 1"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 31 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 20 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.7.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 2"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 32 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 00 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.7.3

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 3"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 33 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.7.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.7.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.5.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.7.

27.22.4.27.5.8 Open Channel (GPRS, support of Text Attribute – Underline On)

27.22.4.27.5.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.8.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.27.5.8.3 Test purpose

To verify that the ME displays an alpha identifier according to the underline text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.8.4 Method of test

27.22.4.27.5.8.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.27.5.8.4.2 Procedure

Expected Sequence 5.8 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Underline On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.8.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.8.1 |  |
| 4 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with underline on] |
| 5 | USER → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.8.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.8.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 12 | ME → USS | PDP context deactivation request |  |
| 13 | USS → ME | PDP context deactivation accept |  |
| 14 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.8.2 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.8.2 |  |
| 18 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with underline off] |
| 19 | USER → ME | The user confirms |  |
| 20 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 21 | USS → ME | PDP context activation accept |  |
| 22 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.8.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.8.1B | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 24 | ME → UICC | FETCH |  |
| 25 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 26 | ME → USS | PDP context deactivation request |  |
| 27 | USS → ME | PDP context deactivation accept |  |
| 28 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 29 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.8.1 |  |
| 30 | ME → UICC | FETCH |  |
| 31 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.8.1 |  |
| 32 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with underline on] |
| 33 | USER → ME | The user confirms |  |
| 34 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 35 | USS → ME | PDP context activation accept |  |
| 36 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.8.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.8.1B | [Command performed successfully] |
| 37 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 38 | ME → UICC | FETCH |  |
| 39 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 40 | ME → USS | PDP context deactivation request |  |
| 41 | USS → ME | PDP context deactivation accept |  |
| 42 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 43 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.8.3 |  |
| 44 | ME → UICC | FETCH |  |
| 45 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.8.3 |  |
| 46 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with underline off] |
| 47 | USER → ME | The user confirms |  |
| 48 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 49 | USS → ME | PDP context activation accept |  |
| 50 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.8.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.8.1B | [Command performed successfully] |
| 51 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 52 | ME → UICC | FETCH |  |
| 53 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 54 | ME → USS | PDP context deactivation request |  |
| 55 | USS → ME | PDP context deactivation accept |  |
| 56 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 5.8.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 1"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 31 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 40 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.8.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 2"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 32 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 00 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.8.3

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 3"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 33 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.8.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.8.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.5.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.8.

27.22.4.27.5.9 Open Channel (GPRS, support of Text Attribute – Strikethrough On)

27.22.4.27.5.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.9.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.27.5.9.3 Test purpose

To verify that the ME displays an alpha identifier according to the strikethrough text attribute configuration in OPEN CHANNEL and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.27.5.9.4 Method of test

27.22.4.27.5.9.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.27.5.9.4.2 Procedure

Expected Sequence 5.9 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Strikethrough On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.9.1 |  |
| 4 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with strikethrough on] |
| 5 | USER → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.9.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.9.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 12 | ME → USS | PDP context deactivation request |  |
| 13 | USS → ME | PDP context deactivation accept |  |
| 14 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.9.2 |  |
| 18 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with strikethrough off] |
| 19 | USER → ME | The user confirms |  |
| 20 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 21 | USS → ME | PDP context activation accept |  |
| 22 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.9.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.9.1B | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 24 | ME → UICC | FETCH |  |
| 25 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 26 | ME → USS | PDP context deactivation request |  |
| 27 | USS → ME | PDP context deactivation accept |  |
| 28 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 29 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1 |  |
| 30 | ME → UICC | FETCH |  |
| 31 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.9.1 |  |
| 32 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with strikethrough on] |
| 33 | USER → ME | The user confirms |  |
| 34 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 35 | USS → ME | PDP context activation accept |  |
| 36 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.9.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.9.1B | [Command performed successfully] |
| 37 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 38 | ME → UICC | FETCH |  |
| 39 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 40 | ME → USS | PDP context deactivation request |  |
| 41 | USS → ME | PDP context deactivation accept |  |
| 42 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 43 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.3 |  |
| 44 | ME → UICC | FETCH |  |
| 45 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.9.3 |  |
| 46 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with strikethrough off] |
| 47 | USER → ME | The user confirms |  |
| 48 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 49 | USS → ME | PDP context activation accept |  |
| 50 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.9.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.9.1B | [Command performed successfully] |
| 51 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 52 | ME → UICC | FETCH |  |
| 53 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 54 | ME → USS | PDP context deactivation request |  |
| 55 | USS → ME | PDP context deactivation accept |  |
| 56 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 5.9.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 1"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 31 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 80 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.9.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 2"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 32 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 00 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.9.3

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 3"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 33 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.9.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.9.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.5.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.9.

27.22.4.27.5.10 Open Channel (GPRS, support of Text Attribute – Foreground and Background Colour)

27.22.4.27.5.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.5.10.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.27.5.10.3 Test purpose

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

27.22.4.27.5.10.4 Method of test

27.22.4.27.5.10.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.27.5.10.4.2 Procedure

Expected Sequence 5.10 (OPEN CHANNEL, immediate link establishment, GPRS, Text Attribute – Foreground and Background Colour)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.10.1 |  |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.10.1 |  |
| 4 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with foreground and background colour according to the text attribute] |
| 5 | USER → ME | The user confirms |  |
| 6 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | USS → ME | PDP context activation accept |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.10.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.10.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 12 | ME → USS | PDP context deactivation request |  |
| 13 | USS → ME | PDP context deactivation accept |  |
| 14 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |
| 15 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.10.2 |  |
| 16 | ME → UICC | FETCH |  |
| 17 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 5.10.2 |  |
| 18 | ME → USER | Confirmation phase with alpha ID | [alpha identifier is displayed with ME's default foreground and background colour] |
| 19 | USER → ME | The user confirms |  |
| 20 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 21 | USS → ME | PDP context activation accept |  |
| 22 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.10.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 5.10.1B | [Command performed successfully] |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 |  |
| 24 | ME → UICC | FETCH |  |
| 25 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 |  |
| 26 | ME → USS | PDP context deactivation request |  |
| 27 | USS → ME | PDP context deactivation accept |  |
| 28 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 5.10.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 1"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Text Attribute

Formatting position: 0

Formatting length: 9

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 | 53 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 31 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 | D0 | 04 | 00 | 09 | 00 |
|  | B4 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: OPEN CHANNEL 5.10.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier "Open ID 2"

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 4D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 05 |
|  | 09 | 4F | 70 | 65 | 6E | 20 | 49 | 44 | 20 | 32 | 35 | 07 |
|  | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 05 | 78 | 47 |
|  | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D |
|  | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 |
|  | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD | 9C |
|  | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.10.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 5.10.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

27.22.4.27.5.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.10.

##### 27.22.4.27.6 Open Channel (related to E-UTRAN)

27.22.4.27.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.6.2 Conformance requirements

The ME shall support the class "e" commands and E-UTRAN as defined in:

- TS 31.111[15] clause 5.2, clauses 6.4.27 and 6.6.27, clause 8.6, clause 8.7, clause 9.2, clause 8.2, clause 8.15, clause 8.52, clause 8.59, clause 8.61 and Annex S

- TS 23.107 [30], cl 9.1.2.2, clause 9.1.2.3,

- TS 23.203 [31], cl 6.1.7.2,

- TS 24.301 [32], cl 9.9.4.3,

- TS 36.508 [33], cl 6.6.1.

- TS 24.011 [11], cl 10.

- TS 31.102 [14], cl 4.2.109

27.22.4.27.6.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (OK); or

- TERMINAL RESPONSE (Command performed with modification); or

- TERMINAL RESPONSE (User did not accept the proactive command);

- TERMINAL RESPONSE (ME currently unable to process command);

to the UICC after the ME receives the OPEN CHANNEL proactive command while accressing E-UTRAN/EPC. The TERMINAL RESPONSE sent back to the UICC is the result of the ME and the network capabilities against requested parameters by the UICC.

To verify that the ME sets up a PDN connection with the Access Point Name (APN) indicated in the Open Channel command which differs from the default APN.

To verify that the ME uses the Default EPS bearer when Bearer Type 3 is indicated in the Open Channel command.

To verify that the ME does not disconnect the Deafult EPS bearer when the user rejects the user confirmation of the Open Channel command.

To verify that the ME sends the TERMINAL RESPONSE (ME currently unable to process command) if the 3GPP PS data off status is "active" and the UE is not configured with indication that Bearer Independent Protocol is a 3GPP PS data off exempt service.

To verify that the ME sends the TERMINAL RESPONSE (OK) if the 3GPP PS data off status is "active" and the UE is configured with indication that Bearer Independent Protocol is a 3GPP PS data off exempt service.

To verify that the maximum number of 7 OPEN CHANNEL commands should be handled by the ME.

27.22.4.27.6.4 Method of test

27.22.4.27.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the E-USS/NB-SS. Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The default E-UTRAN/EPC UICC, the default E-UTRAN parameters and the following parameters are used:

Network access name: Any value other than TestGp.rs or Test12.rs

User login: UserLog

User password: UserPwd

UICC/ME interface transport level

Transport format: TCP

Port number: 44444

Data destination address: 01.01.01.01 (as an example)

Note: If a data destination address different to 01.01.01.01 is used then the same value is used in the content of the affected Open Channel commands and the network simulator setup and related UE settings might require a corresponding adaptation.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

Prior to test case execution the apparatus supplier shall have provided the "Preferred buffer size supported by the terminal for Open Channel command" as requested in table A.2/29.

For sequence 6.1, 6.2 and 6.3 the E-USS shall be able to support 2 active PDN connections at the same time.

In case the ME supports A.1/173 AND A.1/174 AND A.1/178, for sequence 6.1 and 6.3 the NB-SS shall be able to support 2 active PDN connections at the same time.

For sequence 6.6 service n°117 is "available" in EFUST and the Bearer Independent Protocol is not marked in EF3GPPPSDATAOFF as a 3GPP PS data off exempt service. Also SMS over SGs is used to send and receive short messages.

For sequence 6.7 service n°117 is "available" in EFUST and the Bearer Independent Protocol is marked in EF3GPPPSDATAOFF as a 3GPP PS data off exempt service. Also SMS over SGs is used to send and receive short messages.

27.22.4.27.6.4.2 Method of test

Expected Sequence 6.1 (OPEN CHANNEL, immediate link establishment, E-UTRAN, bearer type '02')

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Set and configure APN "TestGp.rs" in the terminal configuration if required | [see initial conditions]  If the ME supports A.1/173 AND NOT A.1/174 only one APN will be activated in step 7. |
| 2 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1 |  |
| 3 | ME → UICC | FETCH |  |
| 4 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.1.1 |  |
| 5 | ME → USER | The ME may display channel opening information |  |
| 6 | ME → E-USS/NB-SS | PDN CONNECTIVITY REQUEST | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | E-USS/NB-SS → ME | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST | [The E-UTRAN parameters are used] |
| 8 | ME → E-USS/NB-SS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT |  |
| 9 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A  OR  TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B | [Command performed successfully  OR  Command performed with modifications] |

PROACTIVE COMMAND: OPEN CHANNEL 6.1.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: GPRS / UTRAN packet service / E-UTRAN

Precedence Class: 03

Delay Class: 04

Reliability Class: 02

Peak throughput class: 09

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: "UserLog" (User login)

Text String: "UserPwd" (User password)

UICC/ME interface transport level

Transport format: TCP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 42 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 07 | 02 | 03 | 04 | 02 | 09 | 1F | 02 | 39 | 02 | 05 | 78 |
|  | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 02 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS / UTRAN packet service / E-UTRAN

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 02

Peak throughput class: 09

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 02 | 09 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed with modifications

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

Bearer description

Bearer type: GPRS / UTRAN packet service / E-UTRAN

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 02

Peak throughput class: 09

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 07 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 02 | 09 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

Expected Sequence 6.2 (OPEN CHANNEL, immediate link establishment, E-UTRAN, bearer type '0B')

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Set and configure APN "TestGp.rs" and "Test12.rs"in the terminal configuration if required | [see initial conditions] |
| 2 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.2.1 |  |
| 3 | ME → UICC | FETCH |  |
| 4 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.2.1 | The "TestGp.rs" APN is requested |
| 5 | ME → USER | The ME may display channel opening information |  |
| 6 | ME → E-USS | PDN CONNECTIVITY REQUEST | The PDN CONNECTIVITY REQUEST shall contain APN value "TestGp.rs"  [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | E-USS → ME | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST | [The E-UTRAN parameters are used with the exception that the "EPS Quality of Service" information element contains QCI = 9 and the maximum and guaranteed bit rates for uplink and downlink shall all be set to 64kbps. The bytes for the extened bit rate values shall not be present in the "EPS Quality of Service" IE] |
| 8 | ME → E-USS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT |  |
| 9 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.2.1A  OR  TERMINAL RESPONSE: OPEN CHANNEL 6.2.1B | [Command performed successfully  OR  Command performed with modifications] |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.1.1 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 3.1.1 | The ME can deactivate the EPS bearer |
| 13 | ME → UICC | TERMINAL RESPONSE: CLOSE CHANNEL 3.1.1 |  |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.2.2 | The "Test12.rs" APN is requested |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.2.2 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → E-USS | PDN CONNECTIVITY REQUEST | The PDN CONNECTIVITY REQUEST shall contain APN value "Test12.rs"  [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 19 | E-USS → ME | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST | [The E-UTRAN parameters are used with the exception that the "EPS Quality of Service" information element contains only the QCI which shall be set to "9"]  [second PDN context activated] |
| 20 | ME → E-USS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT |  |
| 21 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.2.2A  OR  TERMINAL RESPONSE: OPEN CHANNEL 6.2.2B | [Command performed successfully  OR  Command performed with modifications] |

PROACTIVE COMMAND: OPEN CHANNEL 6.2.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: E-UTRAN / mapped UTRAN packet service

QCI 9

Maximum bit rate for uplink: 0 (Subscribed maximum bit rate for uplink)

Maximum bit rate for downlink: 0 (Subscribed maximum bit rate for downlink)

Guaranteed bit rate for uplink: 0 (Use the value indicated by the maximum bit rate for uplink)

Guaranteed bit rate for downlink: 0 (Use the value indicated by the maximum bit rate for downlink)

Maximum bit rate for uplink (extended): 0

Maximum bit rate for downlink (extended): 0

Guaranteed bit rate for uplink (extended): 0

Guaranteed bit rate for downlink (extended): 0

PDN Type: IP

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: "UserLog" (User login)

Text String: "UserPwd" (User password)

UICC/ME interface transport level

Transport format: TCP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 46 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 0B | 0B | 09 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 02 |
|  | 39 | 02 | 05 | 78 | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 |
|  | 70 | 02 | 72 | 73 | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C |
|  | 6F | 67 | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 |
|  | 3C | 03 | 02 | AD | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |

TERMINAL RESPONSE: OPEN CHANNEL 6.2.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer

Bearer type: E-UTRAN / mapped UTRAN packet service

QCI 9

PDN Type: IP

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 03 | 0B | 09 | 02 | 39 | 02 | 05 |
|  | 78 |  |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.2.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed with modifications

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

Bearer

Bearer type: E-UTRAN / mapped UTRAN packet service

QCI 9

PDN Type: IP

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 07 |
|  | 38 | 02 | 81 | 00 | 35 | 03 | 0B | 09 | 02 | 39 | 02 | 05 |
|  | 78 |  |  |  |  |  |  |  |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 3.1.1

Same as PROACTIVE COMMAND: CLOSE CHANNEL 3.1.1 in clause 27.22.4.28.3

TERMINAL RESPONSE: CLOSE CHANNEL 3.1.1

Same as TERMINAL RESPONSE: CLOSE CHANNEL 3.1.1 in clause 27.22.4.28.3

PROACTIVE COMMAND: OPEN CHANNEL 6.2.2

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: E-UTRAN / mapped UTRAN packet service

QCI 9

Maximum bit rate for uplink: 0 (Subscribed maximum bit rate for uplink)

Maximum bit rate for downlink: 0 (Subscribed maximum bit rate for downlink)

Guaranteed bit rate for uplink: 0 (Use the value indicated by the maximum bit rate for uplink)

Guaranteed bit rate for downlink: 0 (Use the value indicated by the maximum bit rate for downlink)

Maximum bit rate for uplink (extended): 0

Maximum bit rate for downlink (extended): 0

Guaranteed bit rate for uplink (extended): 0

Guaranteed bit rate for downlink (extended): 0

PDN Type: IP

Buffer

Buffer size: 1400

Network access name: Test12.rs

Text String: "UserLog" (User login)

Text String: "UserPwd" (User password)

UICC/ME interface transport level

Transport format: TCP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 46 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 0B | 0B | 09 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 02 |
|  | 39 | 02 | 05 | 78 | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 31 |
|  | 32 | 02 | 72 | 73 | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C |
|  | 6F | 67 | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 |
|  | 3C | 03 | 02 | AD | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |

TERMINAL RESPONSE: OPEN CHANNEL 6.2.2A

same as TERMINAL RESPONSE: OPEN CHANNEL 6.2.1A

TERMINAL RESPONSE: OPEN CHANNEL 6.2.2B

same as TERMINAL RESPONSE: OPEN CHANNEL 6.2.1B

Expected Sequence 6.3 (OPEN CHANNEL, immediate link establishment, E-UTRAN, bearer type '02', with Network Access Name, with alpha identifier)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Set and configure APN "Test12.rs" in the terminal configuration if required | [see initial conditions]  If the ME supports A.1/173 AND NOT A.1/174 only one APN will be activated in step 7. |
| 2 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.3.1 |  |
| 3 | ME → UICC | FETCH |  |
| 4 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.3.1 |  |
| 5 | ME → USER | The terminal shall display the alpha identifier "Open Channel for UICC?" during the confirmation phase | [IF NOT A.1/84 (No display) THEN the terminal shall ignore the alpha identifier] |
| 6 | USER → ME | The user confirms | [IF NOT A.1/85 (No keypad) THEN the terminal may open the channel without explicit confirmation by the user] |
| 7 | ME → E-USS/NB-SS | PDN CONNECTIVITY REQUEST | [The PDN CONNECTIVITY REQUEST shall contain the APN "Test12.rs"]  [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 8 | USS/NB-SS → ME | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST | [The E-UTRAN parameters are used] |
| 9 | ME → E-USS/NB-SS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT |  |
| 10 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A  OR  TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B | [Command performed successfully  OR  Command performed with modifications] |

PROACTIVE COMMAND: OPEN CHANNEL 6.3.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier: "Open Channel for UICC?"

Bearer

Bearer type: GPRS / UTRAN packet service / E-UTRAN

Precedence Class: 03

Delay Class: 04

Reliability Class: 02

Peak throughput class: 09

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Network access name: Test12.rs

Text String: "UserLog" (User login)

Text String: "UserPwd" (User password)

UICC/ME interface transport level

Transport format: TCP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 5A | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 85 |
|  | 16 | 4F | 70 | 65 | 6E | 20 | 43 | 68 | 61 | 6E | 6E | 65 |
|  | 6C | 20 | 66 | 6F | 72 | 20 | 55 | 49 | 43 | 43 | 3F | 35 |
|  | 07 | 02 | 03 | 04 | 02 | 09 | 1F | 02 | 39 | 02 | 05 | 78 |
|  | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 31 | 32 | 02 | 72 | 73 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 02 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

Expected Sequence 6.4 (OPEN CHANNEL, immediate link establishment, E-UTRAN, bearer type '03', with alpha identifier, user did not accept the proactive command)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Set and configure APN "TestGp.rs" in the terminal configuration if required | [see initial conditions]  If the ME supports A.1/173 AND NOT A.1/174 no APN will be activated in this step. |
| 2 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.4.1 |  |
| 3 | ME → UICC | FETCH |  |
| 4 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.4.1 |  |
| 5 | ME → USER | The terminal shall display the alpha identifier "Open Channel for UICC?" during the confirmation phase |  |
| 6 | USER → ME | The user rejects |  |
| 7 | ME → E-USS/NB-SS | The terminal shall not send a PDN CONNECTIVITY REQUEST to the network |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.4.1 | [User did not accept proactive command] |
| 9 | ME → E-USS/NB-SS | The ME shall not send a PDN CONNECTIVITY DISCONNECT REQUEST to the network which would disconnect the default EPS bearer which has been established after the terminal has been powered up. | [Within this period the terminal shall not be switched off] |

PROACTIVE COMMAND: OPEN CHANNEL 6.4.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Alpha Identifier: "Open Channel for UICC?"

Bearer

Bearer type: Default bearer for requested transport layer

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: "UserLog" (User login)

Text String: "UserPwd" (User password)

UICC/ME interface transport level

Transport format: TCP, UICC in client mode, remote connection

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 54 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 85 |
|  | 16 | 4F | 70 | 65 | 6E | 20 | 43 | 68 | 61 | 6E | 6E | 65 |
|  | 6C | 20 | 66 | 6F | 72 | 20 | 55 | 49 | 43 | 43 | 3F | 35 |
|  | 01 | 03 | 39 | 02 | 05 | 78 | 47 | 0A | 06 | 54 | 65 | 73 |
|  | 74 | 47 | 70 | 02 | 72 | 73 | 0D | 08 | F4 | 55 | 73 | 65 |
|  | 72 | 4C | 6F | 67 | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 50 |
|  | 77 | 64 | 3C | 03 | 02 | AD | 9C | 3E | 05 | 21 | 01 | 01 |
|  | 01 | 01 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.4.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: User did not accept the proactive command

Channel status The presence and content of this TLV shall not be verified

Bearer description

Bearer type: Default bearer for requested transport layer

Buffer

Buffer size: Because the value depends in this case on the terminal's implementation, it shall be ignored.

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 22 |
|  | Note 1 | 35 | 01 | 03 | | Note 2 |  |  |  |  |  |  |
|  | Note1: The presence and content of the Channel Status TLV shall not be verified.  Note 2: The buffer size TLV shall be present and because the value depends in this case on the terminal's implementation, the value shall be ignored. | | | | | | | | | | | |

Expected Sequence 6.5 (OPEN CHANNEL, immediate link establishment, E-UTRAN, bearer type '03' – Default EPS bearer)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Set and configure APN "TestGp.rs" in the terminal configuration if required | [see initial conditions]  If the ME supports A.1/173 AND NOT A.1/174 no APN will be activated in this step. |
| 2 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.5.1 |  |
| 3 | ME → UICC | FETCH |  |
| 4 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.5.1 |  |
| 5 | ME → USER | The ME may display channel opening information |  |
| 6 | ME → E-USS/NB-SS | The terminal shall not send a PDN CONNECTIVITY REQUEST to the network  Exception: If the ME supports A.1/173 AND NOT A.1/174 PDN CONNECTIVITY REQUEST should be sent by the ME in this step. | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.5.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 6.5.1B | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 6.5.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: Default bearer for requested transport layer

Buffer

Buffer size: 1400

UICC/ME interface transport level

Transport format: TCP, UICC in client mode, remote connection

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 01 | 03 | 39 | 02 | 05 | 78 | 3C | 03 | 02 | AD | 9C | 3E |
|  | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.5.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer

Bearer type: Default bearer for requested transport layer

Buffer

Buffer size: 1400

Coding:

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

TERMINAL RESPONSE: OPEN CHANNEL 6.5.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer

Bearer type: E-UTRAN / mapped UTRAN packet service

QCI 9

Maximum bit rate for uplink: 64 kbps

Maximum bit rate for downlink: 64 kbps

Guaranteed bit rate for uplink: 64 kbps

Guaranteed bit rate for downlink: 64 kbps

Maximum bit rate for uplink (extended): 0

Maximum bit rate for downlink (extended): 0

Guaranteed bit rate for uplink (extended): 0

Guaranteed bit rate for downlink (extended): 0

PDN Type: IP

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 0B | 0B | 09 | 40 | 40 | 40 | 40 |
|  | 00 | 00 | 00 | 00 | 02 | 39 | 02 | 05 | 78 |  |  |  |

Expected Sequence 6.6 (OPEN CHANNEL, BIP is not a 3GPP PS data off exempt service)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Set and configure APN "TestGp.rs" in the terminal configuration if required | [see initial conditions] |
| 2 | USER → ME | Set 3GPP PS data off status is "active" |  |
| 3 | ME → E-USS | Send a Request Bearer Resource Modification message | The ME indicates the change of 3GPP PS Data Off Status to the PDN GW via the PCO (Protocol Configuration Options) |
| 4 | E-USS 🡪 ME | SMS-PP Data Download 6.6.1 | Send SMS over SGs |
| 5 | ME 🡪 UICC | ENVELOPE: SMS-PP DOWNLOAD 6.6.1 |  |
| 6 | UICC → ME | SMS-PP Data Download UICC Acknowledgement | [SW '90 00'] |
| 7 | ME 🡪 E-USS | SMS-PP Data Download UICC acknowledgement (RP-ACK) message. |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.1.1 |  |
| 11 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.6.1 | [ME currently unable to process command] |

SMS-PP (Data Download) Message 6.6.1

Logically:

SMS TPDU

TP-MTI SMS-DELIVER

TP-MMS No more messages waiting for the MS in this SC

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

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

TP-SRI A status report will not be returned to the SME

TP-OA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "1234"

TP-PID (U)SIM Data download

TP-DCS

Coding Group General Data Coding

Compression Text is uncompressed

Message Class Class 2 (U)SIM Specific Message

Alphabet 8 bit data

TP-SCTS: 01/01/98 00:00:00 +0

TP-UDL 13

TP-UD "Short Message"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Coding | 04 | 04 | 91 | 21 | 43 | 7F | 16 | 89 | 10 | 10 | 00 | 00 |
|  | 00 | 00 | 0D | 53 | 68 | 6F | 72 | 74 | 20 | 4D | 65 | 73 |
|  | 73 | 61 | 67 | 65 |  |  |  |  |  |  |  |  |

ENVELOPE: SMS-PP DOWNLOAD 6.6.1

Logically:

SMS-PP Download

Device identities

Source device: Network

Destination device: UICC

Address

TON International number

NPI "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-DELIVER

TP-MMS No more messages waiting for the MS in this SC

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

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

TP-SRI A status report will not be returned to the SME

TP-OA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "1234"

TP-PID (U)SIM Data download

TP-DCS

Coding Group General Data Coding

Compression Text is uncompressed

Message Class Class 2 (U)SIM Specific Message

Alphabet 8 bit data

TP-SCTS: 01/01/98 00:00:00 +0

TP-UDL 13

TP-UD "Short Message"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D1 | 2D | 82 | 02 | 83 | 81 | 06 | 09 | 91 | 11 | 22 | 33 |
|  | 44 | 55 | 66 | 77 | F8 | 8B | 1C | 04 | 04 | 91 | 21 | 43 |
|  | 7F | 16 | 89 | 10 | 10 | 00 | 00 | 00 | 00 | 0D | 53 | 68 |
|  | 6F | 72 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.6.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: ME currently unable to process command

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 20 |

Expected Sequence 6.7 (OPEN CHANNEL, BIP is a 3GPP PS data off exempt service)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Set and configure APN "TestGp.rs" in the terminal configuration if required | [see initial conditions] |
| 2 | USER → ME | Set 3GPP PS data off status is "active" |  |
| 3 | ME → E-USS | Send a Request Bearer Resource Modification message | The ME indicates the change of 3GPP PS Data Off Status to the PDN GW via the PCO (Protocol Configuration Options) |
| 4 | E-USS 🡪 ME | SMS-PP Data Download 6.6.1 | Send SMS over SGs |
| 5 | ME 🡪 UICC | ENVELOPE: SMS-PP DOWNLOAD 6.6.1 |  |
| 6 | UICC → ME | SMS-PP Data Download UICC Acknowledgement | [SW '90 00'] |
| 7 | ME 🡪 E-USS | SMS-PP Data Download UICC acknowledgement (RP-ACK) message. |  |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.1.1 |  |
| 11 | ME → USER | The ME may display channel opening information |  |
| 12 | ME → E-USS/NB-SS | PDN CONNECTIVITY REQUEST | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 13 | E-USS/NB-SS → ME | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST | [The E-UTRAN parameters are used] |
| 14 | ME → E-USS/NB-SS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT |  |
| 15 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A  OR  TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B | [Command performed successfully  OR  Command performed with modifications] |

Expected Sequence 6.8 (OPEN CHANNEL, Maximum number of open channel requests)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.8.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.8.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → E-USS/NB-SS | PDN CONNECTIVITY REQUEST | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | E-USS/NB-SS → ME | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST | [The E-UTRAN parameters are used] |
| 7 | ME → E-USS/NB-SS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.8.1A | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.8.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.8.1 |  |
| 12 | ME → USER | The ME may display channel opening information |  |
| 13 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.8.1B | [Command performed successfully].It shall re-use same PDN for Current Proactive Command |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.8.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.8.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.8.1C | [Command performed successfully].It shall re-use same PDN for Current Proactive Command |
| 19 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.8.1 |  |
| 20 | ME → UICC | FETCH |  |
| 21 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.8.1 |  |
| 22 | ME → USER | The ME may display channel opening information |  |
| 23 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.8.1D | [Command performed successfully].It shall re-use same PDN for Current Proactive Command |
| 24 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.8.1 |  |
| 25 | ME → UICC | FETCH |  |
| 26 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.8.1 |  |
| 27 | ME → USER | The ME may display channel opening information |  |
| 28 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.8.1E | [Command performed successfully].It shall re-use same PDN for Current Proactive Command |
| 29 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.8.1 |  |
| 30 | ME → UICC | FETCH |  |
| 31 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.8.1 |  |
| 32 | ME → USER | The ME may display channel opening information |  |
| 33 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.8.1F | [Command performed successfully].It shall re-use same PDN for Current Proactive Command |
| 34 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.8.1 |  |
| 35 | ME → UICC | FETCH |  |
| 36 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.8.1 |  |
| 37 | ME → USER | The ME may display channel opening information |  |
| 38 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.8.1G | [Command performed successfully].It shall re-use same PDN for Current Proactive Command |
| 39 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.8.1 |  |
| 40 | ME → UICC | FETCH |  |
| 41 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.8.1 |  |
| 42 | ME → USER | The ME may display channel opening information |  |
| 43 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.8.1H | [Command performed successfully]. No channel Available |

PROACTIVE COMMAND: OPEN CHANNEL 6.8.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Buffer

Buffer size: 1000

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | D0 | 42 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 07 | 02 | 03 | 04 | 02 | 09 | 1F | 02 | 39 | 02 | 05 | 78 |
|  | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.8.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 02 | 09 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.8.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 2 and link established or PDP context activated

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 82 | 00 | 35 | 07 | 02 | 03 | 04 | 02 | 09 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.8.1C

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 3 and link established or PDP context activated

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 83 | 00 | 35 | 07 | 02 | 03 | 04 | 02 | 09 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.8.1D

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 4 and link established or PDP context activated

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 84 | 00 | 35 | 07 | 02 | 03 | 04 | 02 | 09 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.8.1E

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 5 and link established or PDP context activated

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 85 | 00 | 35 | 07 | 02 | 03 | 04 | 02 | 09 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.8.1F

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 6 and link established or PDP context activated

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 86 | 00 | 35 | 07 | 02 | 03 | 04 | 02 | 09 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 6.8.1G

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 7 and link established or PDP context activated

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 87 | 00 | 35 | 07 | 02 | 03 | 04 | 02 | 09 | 1F |
|  | 02 | 39 | 02 | 05 | 78 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL6.8.1H

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Bearer Independent Protocol Error – No channel Available

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 02 | 3A |
|  | 01 | 35 | 07 | 02 | 03 | 04 | 02 | 09 | 1F | 02 | 39 | 02 |
|  | 05 | 78 |  |  |  |  |  |  |  |  |  |  |

27.22.4.27.6.5 Test requirement

The ME shall operate in the manner defined in expected sequences 6.1 to 6.8.

##### 27.22.4.27.7 Open Channel (UICC Access to IMS)

27.22.4.27.7.1 Open Channel UICC Access to IMS (UICC IARI on USIM)

27.22.4.27.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.7.2 Conformance requirements

The ME shall support the Open Channel for IMS and Event Download – IMS Registration Event commands as defined in:

- TS 31.111[15] clauses 5.2, clauses 6.4.27 and 6.6.27, clause 8.6, clause 8.7, clause 8.55, clause 8.110

- TS 31.102 [14] clauses 4.2.8, 4.2.95

The ME shall support the EFUICCIARI reading procedure as defined in:

- TS 31.102 [14] clause 5.3.42

The ME shall support the EVENT: IMS registration as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 7.5, clause 8.7, clause 8.25, clause 8.111, clause 8.112.- TS 34.229-1 [36] Annex C.2

Additionally the ME shall be able to carry out the IMS registration procedure according to TS 34.229-1 [36], Annex C.2.

27.22.4.27.7.3 Test purpose

To verify that the ME shall

- open a channel to communicate with the IMS and

- send a TERMINAL RESPONSE (OK) upon successful command execution

to the UICC after the ME receives the OPEN CHANNEL for IMS proactive command.

To verify that when the no ISIM is available the ME reads and uses the IARI stored in the UICC IARI list stored on the USIM if service n°95 is "available" in the USIM service table.

To verify that the ME informs the UICC that an Event: IMS registration has occurred using the ENVELOPE (EVENT DOWNLOAD – IMS registration) command when the ME received a SIP message with Registration information and that it includes the list of active IMPUs.

Note: Verification of correct Open Channel for IMS support in combination with the UICC IARI list stored on the ISIM is verified in clause 27.22.7.20.

27.22.4.27.7.4 Method of test

27.22.4.27.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the Network Simulator (NWS).

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

The channel identifier value used for these tests is set to 1 as an example. This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

Prior to test case execution the apparatus supplier shall have provided the "preferred buffer size supported by the terminal for Open Channel command" as requested in table A.2/29.

The USIM contains an IMS subscription, with following IMPU registered in the IM CN subsystem:

sip:uicctest@ims.3gpp.org

The default USIM with the following execptions is used:

**EFUST (USIM Service Table)**

EF**UST** shall be configured as defined in 27.22.2A with the exception that Service 95 "support of UICC access to IMS" is available.

**EFUICCIARI (UICC IARI list)**

Record 1:

Logically: urn:ur-7:3gpp-application.ims.iari.uicctest

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Byte: | B01 | B02 | B03 | B04 | B05 | B06 | B07 | B08 | B09 | B10 |
| Coding: | 80 | 2B | 75 | 72 | 6E | 3A | 75 | 72 | 2D | 37 |
|  | B11 | B12 | B13 | B14 | B15 | B16 | B17 | B18 | B19 | B20 |
|  | 3A | 33 | 67 | 70 | 70 | 2D | 61 | 70 | 70 | 6C |
|  | B21 | B22 | B23 | B24 | B25 | B26 | B27 | B28 | B29 | B30 |
|  | 69 | 63 | 61 | 74 | 69 | 6F | 6E | 2E | 69 | 6D |
|  | B31 | B32 | B33 | B34 | B35 | B36 | B37 | B38 | B39 | B40 |
|  | 73 | 2E | 69 | 61 | 72 | 69 | 2E | 75 | 69 | 63 |
|  | B41 | B42 | B43 | B44 | B45 | B46 | B47 | B48 | B49 | B50 |
|  | 63 | 74 | 65 | 73 | 74 | FF | FF | FF | FF | FF |

27.22.4.27.7.4.2 Procedure

Expected Sequence 7.1 (OPEN CHANNEL for IMS, IARI list stored on the USIM)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC  ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 7.1.1 | [As response to the TERMINAL PROFILE command] |
| 2 | ME  UICC | FETCH |  |
| 3 | UICC  ME | PROACTIVE COMMAND: SET UP EVENT LIST 7.1.1 |  |
| 4 | ME  UICC | TERMINAL RESPONSE: SET UP EVENT LIST 7.1.1 | [The ME will read the USIM Service Table and the UICC IARI list on the USIM before it will attempt the initial registration to the IMS network] |
| 5 | ME NWS | ME attempts the intial registration to the IMS network. | [The SIP REGISTER for the intial registration may not contain the UICC IARI from the USIM] |
| 6 | NWS ME | IMS network sends SIP message with error code 504 (Server-Time-Out) | [IMS registration failed] |
| 7 | ME  UICC | ENVELOPE: EVENT DOWNLOAD – IMS registration 7.1.1 | [Contains IMS status code 504] |
| 8 | USER ME | Try to initiate another initial IMS registration, e.g. deactivate and reactivate the radio interface | [To trigger an IMS registration attempt. If no option exists to deactivate and reactivate the radio interface separately, the ME could also be switched off and then on again] |
| 9 | ME NWS  NWS  ME | ME attempts to register to IMS services with values derived from the USIM and additionally registers the IARI from EFUICCIARI during the intial registration or subsequent registration to IMS services. | [Initial registration to the IMS network is performed according to TS 34.229-1 [36], Annex C.2. The ME will have read the USIM Service Table and the UICC IARI list on the USIM before it will attempt the initial registration to the IMS network] |
| 10 | ME  UICC | ENVELOPE: EVENT DOWNLOAD – IMS registration 7.1.2 | [After the IARI "urn:ur-7:3gpp-application.ims.iari.uicctest" has been successfully registered during the intial or a subsequent SIP REGISTER message containing this IARI.  If the IARI "urn:ur-7:3gpp-application.ims.iari.uicctest" is not registered during the intial registration to the IMS network further Envelopes – Event Download – IMS Registration without the IARI might have been received. These shall be ignored by the USIM Simulator.] |
| 11 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 7.1.1 |  |
| 12 | ME → UICC | FETCH |  |
| 13 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL for IMS 7.1.1 |  |
| 14 | ME | Channel id, buffer assigned |  |
| 15 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL for IMS 7.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: SET UP EVENT LIST 7.1.1

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: IMS Registration Event

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|  | 01 | 17 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: SET UP EVENT LIST 7.1.1

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 |

EVENT DOWNLOAD - IMS Registration 7.1.1

Logically:

Event list

Event 1: IMS Registration

Device identities

Source device: Network

Destination device: UICC

IMS status code: 504 (Server-Time-Out)

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D6 | 0C | 19 | 01 | 17 | 82 | 02 | 83 | 81 | 78 | 03 | 35 |
|  | 30 | 34 |  |  |  |  |  |  |  |  |  |  |

EVENT DOWNLOAD - IMS Registration 7.1.2

Logically:

Event list

Event 1: IMS Registration

Device identities

Source device: Network

Destination device: UICC

IMPU list: At least one IMPU containing "urn:ur-7:3gpp-application.ims.iari.uicctest"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D6 | Note 1 | 19 | 01 | 17 | 82 | 02 | 83 | 81 | 77 | Note 2 | Note 3 |
| Note 1: The TLV length depends on the IMPU list content  Note 2: The IMPU TLV length depends on the IMPU list entries.  Note 3: The IMPU list shall contain the IMPU "urn:ur-7:3gpp-application.ims.iari.uicctest" and might contain further IMPUs | | | | | | | | | | | | |

PROACTIVE COMMAND: OPEN CHANNEL for IMS 7.1.1

Logically:

Command details

Command number: 01

Command type: OPEN CHANNEL

Command qualifier: 00 (RFU)

Device identities

Source device: UICC

Destination device: ME

Buffer

Buffer size: 1400

IARI urn:ur-7:3gpp-application.ims.iari.uicctest

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 3A | 81 | 03 | 01 | 40 | 00 | 82 | 02 | 81 | 82 | 39 |
|  | 02 | 05 | 78 | 76 | 2B | 75 | 72 | 6E | 3A | 75 | 72 | 2D |
|  | 37 | 3A | 33 | 67 | 70 | 70 | 2D | 61 | 70 | 70 | 6C | 69 |
|  | 63 | 61 | 74 | 69 | 6F | 6E | 2E | 69 | 6D | 73 | 2E | 69 |
|  | 61 | 72 | 69 | 2E | 75 | 69 | 63 | 63 | 74 | 65 | 73 | 74 |

TERMINAL RESPONSE: OPEN CHANNEL 7.1.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: 00 (RFU)

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 1, link established.

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 39 | 02 | 05 | 78 |  |  |  |  |

27.22.4.27.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 7.1.

##### 27.22.4.27.8 Open Channel (related to NG-RAN)

27.22.4.27.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.27.8.2 Conformance requirements

The ME shall support the class "e" commands and NG-RAN as defined in:

- TS 31.111[15] clause 5.2, clauses 6.4.27 and 6.6.27, clause 8.6, clause 8.7, clause 9.2, clause 8.2, clause 8.15, clause 8.52, clause 8.59, clause 8.61,

- TS 24.501 [40], clauses 6.2.2 and 6.2.3,

- TS 23.501 [41], clauses 5.15.5.2 and 5.15.5.3,

- TS 23.503 [42], clause 6.6.2,

- TS 24.526 [43], clause 4.1, 4.2.2, 5.2 and 5.15.5.3,

- TS 23.003 [44], clause 9A,

27.22.4.27.8.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (OK); or

- TERMINAL RESPONSE (Command performed with modification); or

- TERMINAL RESPONSE (User did not accept the proactive command);

- TERMINAL RESPONSE (ME currently unable to process command);

to the UICC after the ME receives the OPEN CHANNEL proactive command while accessing NG-RAN/5GC. The TERMINAL RESPONSE sent back to the UICC is the result of the ME and the network capabilities against requested parameters by the UICC.

To verify that the ME establishes a PDU session with the parameters indicated in the Open Channel command and additional parameters from matching URSP rule when Bearer Types 0x02, 0x0B or 0x0C is indicated in the Open Channel command.

To verify the pre-configured policy is applied by the UE only when the UE has not received the same type of policy from the Network (PCF).

To verify that the ME does not setup a new PDU session and uses the existing PDU session when Bearer Type 3 is indicated in the Open Channel command.

To verify that the ME does not disconnect the existing PDU session when the user rejects the user confirmation of the Open Channel command.

27.22.4.27.8.4 Method of test

27.22.4.27.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the NG-SS. Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The default NG-RAN UICC, the default NG-RAN parameters and the following URSP rules stored in the ME are used:

URSP:

Rule Precedence =1

Traffic Descriptor:

DNN=TestGp.rs

Route Selection Descriptor:

Precedence=1

Network Slice Selection, S-NSSAI: 01 01 01 02 (ST: MBB, SD: 010102)

SSC Mode Selection: SSC Mode 1

Access Type preference: 3GPP access

Rule Precedence = <lowest priority>

Traffic Descriptor: \*

Route Selection Descriptor:

Precedence =1

Network Slice Selection, S-NSSAI: 01 01 01 01 (ST: MBB, SD: 010101)

SSC Mode Selection: SSC Mode 1

DNN Selection: internet

The Allowed S-NSSAI list is configured in NG-SS as '01 01 01 01', '01 01 01 02' and '01 01 01 03'.

For sequence 8.2, 8.3, 8.5 and 8.6 the NG-SS shall be able to support 2 active PDU sessions at the same time.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

Prior to test case execution the apparatus supplier shall have provided the "Preferred buffer size supported by the terminal for Open Channel command" as requested in table A.2/29.

27.22.4.27.8.4.2 Procedure

**Expected Sequence 8.1 (OPEN CHANNEL, immediate link establishment, NG-RAN, bearer type '03' – Default PDU Session)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Direction** | **MESSAGE / Action** | **Comments** |
| 1 | USER → ME | Set and configure URSP rules with DNN "TestGp.rs" in the terminal configuration if required.  Internet PDU session using DNN "internet" is configured in the terminal. | [see initial conditions] |
| 2 | ME → NG-SS | ME successfully REGISTER with NG-RAN cell. |  |
| 3 | ME → NG-SS | An Internet PDU Session is established successfully. |  |
| 4 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 8.1.1 |  |
| 5 | ME → UICC | FETCH |  |
| 6 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 8.1.1 |  |
| 7 | ME → USER | The ME may display channel opening information. |  |
| 8 | ME → NG-SS | The terminal shall not send a PDU SESSION ESTABLISHMENT REQUEST to the network. |  |
| 9 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 8.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 8.1.1

Same as in PROACTIVE COMMAND: OPEN CHANNEL 6.5.1 in sequence 6.5

TERMINAL RESPONSE: OPEN CHANNEL 8.1.1

Same as in TERMINAL RESPONSE: OPEN CHANNEL 6.5.1A in sequence 6.5

**Expected Sequence 8.2 (OPEN CHANNEL, immediate link establishment, NG-RAN, bearer type '0C')**

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Direction** | **MESSAGE / Action** | **Comments** |
| 1 | USER → ME | Set and configure URSP rules with DNN "TestGp.rs" in the terminal configuration if required.  Internet PDU session using DNN "internet" is configured in the terminal. | [see initial conditions] |
| 2 | ME → NG-SS | ME successfully REGISTER with NG-RAN cell. |  |
| 3 | ME → NG-SS | An Internet PDU Session is established successfully. |  |
| 4 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 8.2.1 |  |
| 5 | ME → UICC | FETCH |  |
| 6 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 8.2.1 |  |
| 7 | ME → USER | The ME may display channel opening information. |  |
| 8 | ME → NG-SS | PDU SESSION ESTABLISHMENT REQUEST within UL NAS TRANSPORT is sent to the network. | DNN=TestGp.rs, S-NSSAI='01 01 01 02', SSC mode=1. |
| 9 | NG-SS → ME | PDU SESSION ESTABLISHMENT ACCEPT |  |
| 10 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 8.2.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 8.2.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer description

Bearer type: NG-RAN

Bearer parameter:

PDU Session Type: IPv4v6

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: "UserLog" (User login)

Text String: "UserPwd" (User password)

UICC/ME interface transport level

Transport format: TCP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 3D | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 02 | 0C | 93 | 39 | 02 | 05 | 78 | 47 | 0A | 06 | 54 | 65 |
|  | 73 | 74 | 47 | 70 | 02 | 72 | 73 | 0D | 08 | F4 | 55 | 73 |
|  | 65 | 72 | 4C | 6F | 67 | 0D | 08 | F4 | 55 | 73 | 65 | 72 |
|  | 50 | 77 | 64 | 3C | 03 | 02 | AD | 9C | 3E | 05 | 21 | 01 |
|  | 01 | 01 | 01 |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 8.2.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: NG-RAN

Bearer parameter:

PDU Session Type: IPv4v6

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 02 | 0C | 93 | 39 | 02 | 05 | 78 |

**Expected Sequence 8.3 (OPEN CHANNEL, NG-RAN, bearer type '0C', after receiving policy update for URSP from network)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Direction** | **MESSAGE / Action** | **Comments** |
| 1 | USER → ME | Set and configure URSP rules with DNN "TestGp.rs" in the terminal configuration if required.  Internet PDU session using DNN "internet" is configured in the terminal. | [see initial conditions] |
| 2 | ME → NG-SS | ME successfully REGISTER with NG-RAN cell. |  |
| 3 | ME → NG-SS | An Internet PDU Session is established successfully. |  |
| 4 | NG-SS -> ME | MANAGE UE POLICY COMMAND to update URSP rule for DNN: "TestGp.rs" | * Traffic Descriptor: DNN: 'TestGp.rs'   Route Selection Descriptor:  S-NSSAI: '01 01 01 03', SSC Mode 1   * Traffic Descriptor: \* (Match-All)   Same as the Match-All rule defined in Initial Conditions for the UE.   * MCC/MNC in UE policy section management sublist : 001/01 |
| 5 | ME -> NG-SS | MANAGE UE POLICY COMPLETE |  |
| 6 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 8.3.1 |  |
| 7 | ME → UICC | FETCH |  |
| 8 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 8.3.1 |  |
| 9 | ME → USER | The ME may display channel opening information. |  |
| 10 | ME → NG-SS | PDU SESSION ESTABLISHMENT REQUEST within UL NAS TRANSPORT is sent to the network. | DNN=TestGp.rs, S-NSSAI='01 01 01 03', SSC mode=1. |
| 11 | NG-SS → ME | PDU SESSION ESTABLISHMENT ACCEPT |  |
| 12 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 8.3.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 8.3.1

Same as PROACTIVE COMMAND: OPEN CHANNEL 8.2.1 in sequence 8.2

TERMINAL RESPONSE: OPEN CHANNEL 8.3.1

Same as TERMINAL RESPONSE: OPEN CHANNEL 8.2.1 in sequence 8.2

**Expected Sequence 8.4 (OPEN CHANNEL, NG-RAN, bearer type '0C', PDU Session is already available for the same DNN)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Direction** | **MESSAGE / Action** | **Comments** |
| 1 | USER → ME | Set and configure URSP rules with DNN "TestGp.rs" in the terminal configuration if required.  Internet PDU session using DNN "TestGp.rs" is configured in the terminal. | [see initial conditions]  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. |  |
| 4 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 8.4.1 |  |
| 5 | ME → UICC | FETCH |  |
| 6 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 8.4.1 |  |
| 7 | ME → USER | The ME may display channel opening information. |  |
| 8 | ME → NG-SS | The terminal shall not send a PDU SESSION ESTABLISHMENT REQUEST to the network. |  |
| 9 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 8.4.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 8.4.1

Same as PROACTIVE COMMAND: OPEN CHANNEL 8.2.1 in sequence 8.2

TERMINAL RESPONSE: OPEN CHANNEL 8.4.1

Same as TERMINAL RESPONSE: OPEN CHANNEL 8.2.1 in sequence 8.2

**Expected Sequence 8.5 (OPEN CHANNEL, immediate link establishment, NG-RAN, bearer type '02')**

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Direction** | **MESSAGE / Action** | **Comments** |
| 1 | USER → ME | Set and configure URSP rules with DNN "TestGp.rs" in the terminal configuration if required.  Internet PDU session using DNN "internet" is configured in the terminal. | [see initial conditions] |
| 2 | ME → NG-SS | ME successfully REGISTER with NG-RAN cell. |  |
| 3 | ME → NG-SS | An Internet PDU Session is established successfully. |  |
| 4 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 8.5.1 |  |
| 5 | ME → UICC | FETCH |  |
| 6 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 8.5.1 |  |
| 7 | ME → USER | The ME may display channel opening information. |  |
| 8 | ME → NG-SS | PDU SESSION ESTABLISHMENT REQUEST within UL NAS TRANSPORT is sent to the network. | DNN=TestGp.rs, S-NSSAI='01 01 01 02', SSC mode=1. |
| 9 | NG-SS → ME | PDU SESSION ESTABLISHMENT ACCEPT |  |
| 10 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 8.5.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 8.5.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: GPRS / UTRAN Packet Service / E-UTRAN / Satellite E-UTRAN / NG-RAN / Satellite NG-RAN

Quality of Service (QoS) parameters: *not applicable for NG-RAN*

PDP type: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: "UserLog" (User login)

Text String: "UserPwd" (User password)

UICC/ME interface transport level

Transport format: TCP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 42 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 07 | 02 | xx | xx | xx | xx | xx | 02 | 39 | 02 | 05 | 78 |
|  | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 02 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

With xx representing Quality of Service (QoS) parameters that are not applicable for NG-RAN.

TERMINAL RESPONSE: OPEN CHANNEL 8.5.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS / UTRAN Packet Service / E-UTRAN / Satellite E-UTRAN / NG-RAN / Satellite NG-RAN

Quality of Service (QoS) parameters: *not applicable for NG-RAN*

PDP type: (IP)

Buffer

Buffer size: 1400

Coding:

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

With xx representing Quality of Service (QoS) parameters that are not applicable for NG-RAN.

**Expected Sequence 8.6 (OPEN CHANNEL, immediate link establishment, NG-RAN, bearer type '0B')**

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Direction** | **MESSAGE / Action** | **Comments** |
| 1 | USER → ME | Set and configure URSP rules with DNN "TestGp.rs" in the terminal configuration if required.  Internet PDU session using DNN "internet" is configured in the terminal. | [see initial conditions] |
| 2 | ME → NG-SS | ME successfully REGISTER with NG-RAN cell. |  |
| 3 | ME → NG-SS | An Internet PDU Session is established successfully. |  |
| 4 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 8.6.1 |  |
| 5 | ME → UICC | FETCH |  |
| 6 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 8.6.1 |  |
| 7 | ME → USER | The ME may display channel opening information. |  |
| 8 | ME → NG-SS | PDU SESSION ESTABLISHMENT REQUEST within UL NAS TRANSPORT is sent to the network. | DNN=TestGp.rs, S-NSSAI='01 01 01 02', SSC mode=1. |
| 9 | NG-SS → ME | PDU SESSION ESTABLISHMENT ACCEPT |  |
| 10 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 8.6.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 8.6.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer description

Bearer type: E-UTRAN / Satellite E-UTRAN / NG-RAN / Satellite NG-RAN / mapped UTRAN packet service

Quality of Service (QoS) parameters: *not applicable for NG-RAN*

PDP type: 02 (IP)

Buffer

Buffer size: 1400

Network access name: TestGp.rs

Text String: "UserLog" (User login)

Text String: "UserPwd" (User password)

UICC/ME interface transport level

Transport format: TCP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 46 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 0B | 0B | xx | xx | xx | xx | xx | xx | xx | xx | xx | 02 |
|  | 39 | 02 | 05 | 78 | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 |
|  | 70 | 02 | 72 | 73 | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C |
|  | 6F | 67 | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 |
|  | 3C | 03 | 02 | AD | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |

With xx representing Quality of Service (QoS) parameters that are not applicable for NG-RAN.

TERMINAL RESPONSE: OPEN CHANNEL 8.6.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer

Bearer type: E-UTRAN / Satellite E-UTRAN / NG-RAN / Satellite NG-RAN / mapped UTRAN packet service

Quality of Service (QoS) parameters: *not applicable for NG-RAN*

PDP type: 02 (IP)

Buffer

Buffer size: 1400

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 03 | 0B | xx | 02 | 39 | 02 | 05 |
|  | 78 |  |  |  |  |  |  |  |  |  |  |  |

With xx representing Quality of Service (QoS) parameters that are not applicable for NG-RAN.

27.22.4.27.8.5 Test requirement

The ME shall operate in the manner defined in expected sequences 8.1 to 8.6.

#### 27.22.4.28 CLOSE CHANNEL

##### 27.22.4.28.1 CLOSE CHANNEL(normal)

27.22.4.28.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.1.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.1.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or

- TERMINAL RESPONSE (Bearer Independent Protocol Error);

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

27.22.4.28.1.4 Method of Test

27.22.4.28.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27

The following Bearer Parameters used are those defined in the default Test PDP context for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.1.4.2 Procedure

Expected sequence 1.1 (CLOSE CHANNEL, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1 |  |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 1.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1000

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | D0 | 42 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 07 | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 03 | E8 |
|  | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 03 | E8 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 03 | E8 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |

TERMINAL RESPONSE: CLOSE CHANNEL 1.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

Expected sequence 1.2 (CLOSE CHANNEL, with an invalid channel identifier)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.2.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1 |  |
| 11 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 1.2.1 | [Invalid channel number] |

PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 2

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 22 |

TERMINAL RESPONSE: CLOSE CHANNEL 1.2.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Bearer Independent Protocol error

Additional Result: Channel identifier not valid

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 02 | 3A |
|  | 03 |  |  |  |  |  |  |  |  |  |  |  |

Expected sequence 1.3 (CLOSE CHANNEL, on an already closed channel)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1 |  |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 1.1.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.3.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 1.3.1 |  |
| 17 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 1.3.1A  or  TERMINAL RESPONSE CLOSE CHANNEL 1.3.1B | [Channel closed]  [Channel identifier invalid] |

PROACTIVE COMMAND: CLOSE CHANNEL 1.3.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |

TERMINAL RESPONSE: CLOSE CHANNEL 1.3.1A

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Bearer Independent Protocol error

Additional Result: Channel closed

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 02 | 3A |
|  | 02 |  |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 1.3.1B

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Bearer Independent Protocol error

Additional Result: Channel identifier invalid

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 02 | 3A |
|  | 03 |  |  |  |  |  |  |  |  |  |  |  |

##### 27.22.4.28.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

##### 27.22.4.28.2 CLOSE CHANNEL (support of Text Attribute)

27.22.4.28.2.1 CLOSE CHANNEL (support of Text Attribute – Left Alignment)

27.22.4.28.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.1.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.2.1.3 Test purpose

To verify that the ME shall display the alpha identifier according to the left alignment text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.1.4 Method of Test

27.22.4.28.2.1.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.2.1.4.2 Procedure

Expected sequence 2.1 (CLOSE CHANNEL, with Text Attribute – Left Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.1.1A |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.1.1 | [alpha identifier is displayed with left alignment] |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.1.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 19 | USS → ME | PDP context activation accept |  |
| 20 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 21 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.1.2 |  |
| 22 | ME → UICC | FETCH |  |
| 23 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.1.2 | [Message shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/20, no alignment change will take place] |
| 24 | ME → USS | PDP context deactivation request |  |
| 25 | USS → ME | PDP context deactivation accept |  |
| 26 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.1.1 | [Command performed successfully] |

PROACTIVE COMMAND: CLOSE CHANNEL 2.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 31 | D0 | 04 | 00 | 0A | 00 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.1.2

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 32 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 2.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.2.1.5 Test Requirement

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

27.22.4.28.2.2 CLOSE CHANNEL (support of Text Attribute – Center Alignment)

27.22.4.28.2.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.2.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.2.2.3 Test purpose

To verify that the ME shall display the alpha identifier according to the center alignment text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.2.4 Method of Test

27.22.4.28.2.2.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.2.2.4.2 Procedure

Expected sequence 2.2 (CLOSE CHANNEL, with Text Attribute – Center Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.2.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.2.1 | [alpha identifier is displayed with center alignment] |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.2.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 19 | USS → ME | PDP context activation accept |  |
| 20 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 21 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.2.2 |  |
| 22 | ME → UICC | FETCH |  |
| 23 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.2.2 | [Message shall be formatted without center alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/20, no alignment change will take place] |
| 24 | ME → USS | PDP context deactivation request |  |
| 25 | USS → ME | PDP context deactivation accept |  |
| 26 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.2.1 | [Command performed successfully] |

PROACTIVE COMMAND: CLOSE CHANNEL 2.2.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 31 | D0 | 04 | 00 | 0A | 01 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.2.2

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 32 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 2.2.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.2.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.2.

27.22.4.28.2.3 CLOSE CHANNEL (support of Text Attribute – Right Alignment)

27.22.4.28.2.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.3.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.2.3.3 Test purpose

To verify that the ME shall display the alpha identifier according to the right alignment text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.3.4 Method of Test

27.22.4.28.2.3.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.2.3.4.2 Procedure

Expected sequence 2.3 (CLOSE CHANNEL, with Text Attribute – Right Alignment)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.3.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.3.1 | [alpha identifier is displayed with right alignment] |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.3.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 19 | USS → ME | PDP context activation accept |  |
| 20 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 21 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.3.2 |  |
| 22 | ME → UICC | FETCH |  |
| 23 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.3.2 | [Message shall be formatted without right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/20, no alignment change will take place] |
| 24 | ME → USS | PDP context deactivation request |  |
| 25 | USS → ME | PDP context deactivation accept |  |
| 26 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.3.1 | [Command performed successfully] |

PROACTIVE COMMAND: CLOSE CHANNEL 2.3.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 31 | D0 | 04 | 00 | 0A | 02 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.3.2

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 32 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 2.3.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.2.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.3.

27.22.4.28.2.4 CLOSE CHANNEL (support of Text Attribute – Large Font Size)

27.22.4.28.2.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.4.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.2.4.3 Test purpose

To verify that the ME shall display the alpha identifier according to the large font size text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.4.4 Method of Test

27.22.4.28.2.4.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.2.4.4.2 Procedure

Expected sequence 2.4 (CLOSE CHANNEL, with Text Attribute – Large Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.4.1 | [alpha identifier is displayed with large font size] |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.4.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → USS | PDP context deactivation request |  |
| 19 | USS → ME | PDP context deactivation accept |  |
| 20 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 21 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.2 |  |
| 22 | ME → UICC | FETCH |  |
| 23 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.4.2 | [alpha identifier is displayed with normal font size] |
| 24 | ME → USS | PDP context deactivation request |  |
| 25 | USS → ME | PDP context deactivation accept |  |
| 26 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.4.1 | [Command performed successfully] |
| 27 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 28 | ME → UICC | FETCH |  |
| 29 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 30 | ME → USER | The ME may display channel opening information |  |
| 31 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 32 | USS → ME | PDP context activation accept |  |
| 33 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 34 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.1 |  |
| 35 | ME → UICC | FETCH |  |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.4.1 | [alpha identifier is displayed with large font size] |
| 37 | ME → USS | PDP context deactivation request |  |
| 38 | USS → ME | PDP context deactivation accept |  |
| 39 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.4.1 | [Command performed successfully] |
| 40 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 41 | ME → UICC | FETCH |  |
| 42 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 43 | ME → USER | The ME may display channel opening information |  |
| 44 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 45 | USS → ME | PDP context activation accept |  |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 47 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.4.3 |  |
| 48 | ME → UICC | FETCH |  |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.4.3 | [alpha identifier is displayed with normal font size] |
| 50 | ME → USS | PDP context deactivation request |  |
| 51 | USS → ME | PDP context deactivation accept |  |
| 52 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.4.1 | [Command performed successfully] |

PROACTIVE COMMAND: CLOSE CHANNEL 2.4.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 31 | D0 | 04 | 00 | 0A | 04 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.4.2

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 2"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 32 | D0 | 04 | 00 | 0A | 00 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.4.3

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 33 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 2.4.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.2.4.5 Test Requirement

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

27.22.4.28.2.5 CLOSE CHANNEL (support of Text Attribute – Small Font Size)

27.22.4.28.2.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.5.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.2.5.3 Test purpose

To verify that the ME shall display the alpha identifier according to the small font size text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.5.4 Method of Test

27.22.4.28.2.5.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.2.5.4.2 Procedure

Expected sequence 2.5 (CLOSE CHANNEL, with Text Attribute – Small Font Size)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1 | [alpha identifier is displayed with small font size] |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.5.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 19 | USS → ME | PDP context activation accept |  |
| 20 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 21 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.2 |  |
| 22 | ME → UICC | FETCH |  |
| 23 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.5.2 | [alpha identifier is displayed with normal font size] |
| 24 | ME → USS | PDP context deactivation request |  |
| 25 | USS → ME | PDP context deactivation accept |  |
| 26 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.5.1 | [Command performed successfully] |
| 27 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 28 | ME → UICC | FETCH |  |
| 29 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 30 | ME → USER | The ME may display channel opening information |  |
| 31 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 32 | USS → ME | PDP context activation accept |  |
| 33 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 34 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.1 |  |
| 35 | ME → UICC | FETCH |  |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1 | [alpha identifier is displayed with small font size] |
| 37 | ME → USS | PDP context deactivation request |  |
| 38 | USS → ME | PDP context deactivation accept |  |
| 39 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.5.1 | [Command performed successfully] |
| 40 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 41 | ME → UICC | FETCH |  |
| 42 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 43 | ME → USER | The ME may display channel opening information |  |
| 44 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 45 | USS → ME | PDP context activation accept |  |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 47 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.5.3 |  |
| 48 | ME → UICC | FETCH |  |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.5.3 | [alpha identifier is displayed with normal font size] |
| 50 | ME → USS | PDP context deactivation request |  |
| 51 | USS → ME | PDP context deactivation accept |  |
| 52 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.5.1 | [Command performed successfully] |

PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 31 | D0 | 04 | 00 | 0A | 08 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.5.2

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 2"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 32 | D0 | 04 | 00 | 0A | 00 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.5.3

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 33 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 2.5.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.2.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.5.

27.22.4.28.2.6 CLOSE CHANNEL (support of Text Attribute – Bold On)

27.22.4.28.2.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.6.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.2.6.3 Test purpose

To verify that the ME shall display the alpha identifier according to the bold text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.6.4 Method of Test

27.22.4.28.2.6.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.2.6.4.2 Procedure

Expected sequence 2.6 (CLOSE CHANNEL, with Text Attribute – Bold On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1 | [alpha identifier is displayed with bold on] |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.6.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 19 | USS → ME | PDP context activation accept |  |
| 20 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 21 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.2 |  |
| 22 | ME → UICC | FETCH |  |
| 23 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.6.2 | [alpha identifier is displayed with bold off] |
| 24 | ME → USS | PDP context deactivation request |  |
| 25 | USS → ME | PDP context deactivation accept |  |
| 26 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.6.1 | [Command performed successfully] |
| 27 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 28 | ME → UICC | FETCH |  |
| 29 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 30 | ME → USER | The ME may display channel opening information |  |
| 31 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 32 | USS → ME | PDP context activation accept |  |
| 33 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 34 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.1 |  |
| 35 | ME → UICC | FETCH |  |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1 | [alpha identifier is displayed with bold on] |
| 37 | ME → USS | PDP context deactivation request |  |
| 38 | USS → ME | PDP context deactivation accept |  |
| 39 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.6.1 | [Command performed successfully] |
| 40 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 41 | ME → UICC | FETCH |  |
| 42 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 43 | ME → USER | The ME may display channel opening information |  |
| 44 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 45 | USS → ME | PDP context activation accept |  |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 47 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.3 |  |
| 48 | ME → UICC | FETCH |  |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.6.3 | [alpha identifier is displayed with bold off] |
| 50 | ME → USS | PDP context deactivation request |  |
| 51 | USS → ME | PDP context deactivation accept |  |
| 52 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.6.1 | [Command performed successfully] |

PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 31 | D0 | 04 | 00 | 0A | 10 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.6.2

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 2"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 32 | D0 | 04 | 00 | 0A | 00 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.6.3

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 33 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 2.6.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.2.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.6.

27.22.4.28.2.7 CLOSE CHANNEL (support of Text Attribute – Italic On)

27.22.4.28.2.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.7.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.2.7.3 Test purpose

To verify that the ME shall display the alpha identifier according to the italic text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.7.4 Method of Test

27.22.4.28.2.7.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.2.7.4.2 Procedure

Expected sequence 2.7 (CLOSE CHANNEL, with Text Attribute – Italic On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.7.1 | [alpha identifier is displayed with bold on] |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.7.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 19 | USS → ME | PDP context activation accept |  |
| 20 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 21 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.6.2 |  |
| 22 | ME → UICC | FETCH |  |
| 23 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.7.2 | [alpha identifier is displayed with bold off] |
| 24 | ME → USS | PDP context deactivation request |  |
| 25 | USS → ME | PDP context deactivation accept |  |
| 26 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.7.1 | [Command performed successfully] |
| 27 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 28 | ME → UICC | FETCH |  |
| 29 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 30 | ME → USER | The ME may display channel opening information |  |
| 31 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 32 | USS → ME | PDP context activation accept |  |
| 33 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 34 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.1 |  |
| 35 | ME → UICC | FETCH |  |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.7.1 | [alpha identifier is displayed with bold on] |
| 37 | ME → USS | PDP context deactivation request |  |
| 38 | USS → ME | PDP context deactivation accept |  |
| 39 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.7.1 | [Command performed successfully] |
| 40 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 41 | ME → UICC | FETCH |  |
| 42 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 43 | ME → USER | The ME may display channel opening information |  |
| 44 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 45 | USS → ME | PDP context activation accept |  |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 47 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.3 |  |
| 48 | ME → UICC | FETCH |  |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.7.3 | [alpha identifier is displayed with bold off] |
| 50 | ME → USS | PDP context deactivation request |  |
| 51 | USS → ME | PDP context deactivation accept |  |
| 52 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.7.1 | [Command performed successfully] |

PROACTIVE COMMAND: CLOSE CHANNEL 2.7.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 31 | D0 | 04 | 00 | 0A | 20 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.7.2

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 2"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 32 | D0 | 04 | 00 | 0A | 00 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.7.3

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 33 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 2.7.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.2.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.7.

27.22.4.28.2.8 CLOSE CHANNEL (support of Text Attribute – Underline On)

27.22.4.28.2.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.8.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.2.8.3 Test purpose

To verify that the ME shall display the alpha identifier according to the underline text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.8.4 Method of Test

27.22.4.28.2.8.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.2.8.4.2 Procedure

Expected sequence 2.8 (CLOSE CHANNEL, with Text Attribute – Underline On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1 | [alpha identifier is displayed with underline on] |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.8.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 19 | USS → ME | PDP context activation accept |  |
| 20 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 21 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.2 |  |
| 22 | ME → UICC | FETCH |  |
| 23 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.8.2 | [alpha identifier is displayed with underline off] |
| 24 | ME → USS | PDP context deactivation request |  |
| 25 | USS → ME | PDP context deactivation accept |  |
| 26 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.8.1 | [Command performed successfully] |
| 27 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 28 | ME → UICC | FETCH |  |
| 29 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 30 | ME → USER | The ME may display channel opening information |  |
| 31 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 32 | USS → ME | PDP context activation accept |  |
| 33 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 34 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.1 |  |
| 35 | ME → UICC | FETCH |  |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1 | [alpha identifier is displayed with underline on] |
| 37 | ME → USS | PDP context deactivation request |  |
| 38 | USS → ME | PDP context deactivation accept |  |
| 39 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.8.1 | [Command performed successfully] |
| 40 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 41 | ME → UICC | FETCH |  |
| 42 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 43 | ME → USER | The ME may display channel opening information |  |
| 44 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 45 | USS → ME | PDP context activation accept |  |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 47 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.3 |  |
| 48 | ME → UICC | FETCH |  |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.8.3 | [alpha identifier is displayed with underline off] |
| 50 | ME → USS | PDP context deactivation request |  |
| 51 | USS → ME | PDP context deactivation accept |  |
| 52 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.8.1 | [Command performed successfully] |

PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 31 | D0 | 04 | 00 | 0A | 40 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.8.2

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 2"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 32 | D0 | 04 | 00 | 0A | 00 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.8.3

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 33 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 2.8.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.2.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.8.

27.22.4.28.2.9 CLOSE CHANNEL (support of Text Attribute – Strikethrough On)

27.22.4.28.2.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.9.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.2.9.3 Test purpose

To verify that the ME shall display the alpha identifier according to the strikethrough text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.9.4 Method of Test

27.22.4.28.2.9.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.2.9.4.2 Procedure

Expected sequence 2.9 (CLOSE CHANNEL, with Text Attribute – Strikethrough On)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1 | [alpha identifier is displayed with strikethrough on] |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.9.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 19 | USS → ME | PDP context activation accept |  |
| 20 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 21 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.2 |  |
| 22 | ME → UICC | FETCH |  |
| 23 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.9.2 | [alpha identifier is displayed with strikethrough off] |
| 24 | ME → USS | PDP context deactivation request |  |
| 25 | USS → ME | PDP context deactivation accept |  |
| 26 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.9.1 | [Command performed successfully] |
| 27 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 28 | ME → UICC | FETCH |  |
| 29 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 30 | ME → USER | The ME may display channel opening information |  |
| 31 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 32 | USS → ME | PDP context activation accept |  |
| 33 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 34 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.1 |  |
| 35 | ME → UICC | FETCH |  |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1 | [alpha identifier is displayed with strikethrough on] |
| 37 | ME → USS | PDP context deactivation request |  |
| 38 | USS → ME | PDP context deactivation accept |  |
| 39 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.9.1 | [Command performed successfully] |
| 40 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 41 | ME → UICC | FETCH |  |
| 42 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 43 | ME → USER | The ME may display channel opening information |  |
| 44 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 45 | USS → ME | PDP context activation accept |  |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 47 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.3 |  |
| 48 | ME → UICC | FETCH |  |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.9.3 | [alpha identifier is displayed with strikethrough off] |
| 50 | ME → USS | PDP context deactivation request |  |
| 51 | USS → ME | PDP context deactivation accept |  |
| 52 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.9.1 | [Command performed successfully] |

PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 31 | D0 | 04 | 00 | 0A | 80 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.9.2

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 2"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 32 | D0 | 04 | 00 | 0A | 00 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.9.3

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 3"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 33 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 2.9.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.2.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.9.

27.22.4.28.2.10 CLOSE CHANNEL (support of Text Attribute – Foreground and Background Colour)

27.22.4.28.2.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.2.10.2 Conformance requirements

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

- TS 31.111 [15].

27.22.4.28.2.10.3 Test purpose

To verify that the ME shall display the alpha identifier according to the foreground and background colour text attribute configuration in the CLOSE CHANNEL proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.28.2.10.4 Method of Test

27.22.4.28.2.10.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

For MEs supporting BIP related to GPRS in UDP (i.e condition C121 in table B.1), The PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 shall be executed to open a channel successfully at the beginning of the test. The corresponding Terminal Response shall be TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B.

The channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 34.108 [12], for test cases using packet services:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.2.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.2.4.1.

27.22.4.28.2.10.4.2 Procedure

Expected sequence 2.10 (CLOSE CHANNEL, with Text Attribute – Foreground and Background Colour)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | USS → ME | PDP context activation accept |  |
| 7 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.10.1 |  |
| 9 | ME → UICC | FETCH |  |
| 10 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.10.1 | [alpha identifier is displayed with foreground and background colour according to the text attribute configuration] |
| 11 | ME → USS | PDP context deactivation request |  |
| 12 | USS → ME | PDP context deactivation accept |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.10.1 | [Command performed successfully] |
| 14 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 |  |
| 15 | ME → UICC | FETCH |  |
| 16 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1 |  |
| 17 | ME → USER | The ME may display channel opening information |  |
| 18 | ME → USS | PDP context activation request | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 19 | USS → ME | PDP context activation accept |  |
| 20 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 21 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.10.2 |  |
| 22 | ME → UICC | FETCH |  |
| 23 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 2.10.2 | [alpha identifier is displayed with ME's default foreground and background colour] |
| 24 | ME → USS | PDP context deactivation request |  |
| 25 | USS → ME | PDP context deactivation accept |  |
| 26 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 2.10.1 | [Command performed successfully] |

PROACTIVE COMMAND: CLOSE CHANNEL 2.10.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0

Formatting length: 10

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 | 1B | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 31 | D0 | 04 | 00 | 0A | 00 | B4 |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 2.10.2

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Close ID 2"

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|  | 85 | 0A | 43 | 6C | 6F | 73 | 65 | 20 | 49 | 44 | 20 |
|  | 32 |  |  |  |  |  |  |  |  |  |  |

TERMINAL RESPONSE: CLOSE CHANNEL 2.10.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.2.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.10.

##### 27.22.4.28.3 CLOSE CHANNEL(E-UTRAN/EPC)

27.22.4.28.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.3.2 Conformance requirements

The ME shall support the class "e" commands and E-UTRAN as defined in:

- TS 31.111 [15].

27.22.4.28.3.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or

- TERMINAL RESPONSE (Bearer Independent Protocol Error, invalid channel identifier);

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

To verify that upon reception of CLOSE CHANNEL proactive command with command qualifier set to 1, the same PDN connection can be re-used for next OPEN CHANNEL command by the ME.

27.22.4.28.3.4 Method of Test

27.22.4.28.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the E-USS/NB-SS. Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The default E-UTRAN/EPC UICC, the default E-UTRAN parameters and the following parameters are used:

Network access name: TestGp.rs

User login: UserLog

User password: UserPwd

UICC/ME interface transport level: Same UICC/ME transport interface level as defined in 27.22.4.27.6.4.1

Data destination address : Same Data Destination Address as defined in 27.22.4.27.6.4.1.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

27.22.4.28.3.4.2 Procedure

Expected sequence 3.1 (CLOSE CHANNEL, Default EPS bearer, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Set and configure APN "TestGp.rs" in the terminal configuration if required | [see initial conditions]  If the ME supports A.1/173 AND NOT A.1/174 only one APN will be activated in step 6. |
| 2 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.6.1 |  |
| 3 | ME → UICC | FETCH |  |
| 4 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.6.1 |  |
| 5 | ME → USER | The ME may display channel opening information |  |
| 6 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.6.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 6.6.1B | [Command performed successfully] |
| 7 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.1.1 |  |
| 8 | ME → UICC | FETCH |  |
| 9 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 3.1.1 |  |
| 10 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 3.1.1 | [Command performed successfully] |
| 11 | USER → ME | Wait 30 seconds, then switch off the terminal |  |

PROACTIVE COMMAND: OPEN CHANNEL 6.6.1

Same as PROACTIVE COMMAND: OPEN CHANNEL 6.5.1 in clause 27.22.4.27.6.4.

TERMINAL RESPONSE: OPEN CHANNEL 6.6.1A

Same as TERMINAL RESPONSE: OPEN CHANNEL 6.5.1A in clause 27.22.4.27.6.4.

TERMINAL RESPONSE: OPEN CHANNEL 6.6.1B

Same as TERMINAL RESPONSE: OPEN CHANNEL 6.5.1B in clause 27.22.4.27.6.4.

PROACTIVE COMMAND: CLOSE CHANNEL 3.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |

TERMINAL RESPONSE: CLOSE CHANNEL 3.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

Expected sequence 3.2 (CLOSE CHANNEL, EPS bearer with APN different from default APN, successful)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | USER → ME | Set and configure APN "Test12.rs" in the terminal configuration if required | [see initial conditions]  If the ME supports A.1/173 AND NOT A.1/174 only one APN will be activated in step 7. |
| 2 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.3.1 |  |
| 3 | ME → UICC | FETCH |  |
| 4 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 6.3.1 |  |
| 5 | ME → USER | The terminal shall display the alpha identifier "Open Channel for UICC?" during the confirmation phase | [IF NOT A.1/84 (No display) THEN the terminal shall ignore the alpha identifier] |
| 6 | USER → ME | The user confirms | [IF NOT A.1/85 (No keypad) THEN the terminal may open the channel without explicit confirmation by the user] |
| 7 | ME → E-USS/NB-SS | PDN CONNECTIVITY REQUEST | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 8 | E-USS/NB-SS 🡪 ME | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST |  |
| 9 | ME → E-USS/NB-SS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT |  |
| 10 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A  OR  TERMINAL RESPONSE:  OPEN CHANNEL 6.1.1B | [Command performed successfully  OR  Command performed with modifications] |
| 11 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.2.1 |  |
| 12 | ME → UICC | FETCH |  |
| 13 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 3.2.1 |  |
| 14 | ME → E-USS/NB-SS | The ME shall send a PDN CONNECTIVITY DISCONNECT REQUEST to the network disconnect only the EPS bearer which has been established with the Open Channel command | If the ME supports A.1/173 this step is optional. |
| 15 | E-USS/NB-SS → ME | DEACTIVATE EPS BEARER CONTEXT REQUEST |  |
| 16 | ME → E-USS/NB-SS | DEACTIVATE EPS BEARER CONTEXT ACCEPT |  |
| 17 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 3.2.1 | [Command performed successfully] |
| 18 | USER → ME | Wait 30 seconds then switch off the terminal |  |

PROACTIVE COMMAND: OPEN CHANNEL 6.3.1

Same as PROACTIVE COMMAND: OPEN CHANNEL 6.3.1 in clause 27.22.4.27.6.4.

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A

Same as TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A in clause 27.22.4.27.6.4.

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B

Same as TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B in clause 27.22.4.27.6.4.

PROACTIVE COMMAND: CLOSE CHANNEL 3.2.1

Same as TERMINAL RESPONSE: CLOSE CHANNEL 3.1.1 as used in sequence 3.1

TERMINAL RESPONSE: CLOSE CHANNEL 3.2.1

Same as TERMINAL RESPONSE: CLOSE CHANNEL 3.1.1 as used in sequence 3.1

Expected sequence 3.3 (CLOSE CHANNEL, Command qualifier set to 1)

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Direction | MESSAGE / Action | Comments |
| 1 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 3.3.1 | See initial conditions |
| 2 | ME → UICC | FETCH |  |
| 3 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 3.3.1 |  |
| 4 | ME → USER | The ME may display channel opening information |  |
| 5 | ME → E-USS/NB-SS | PDN CONNECTIVITY REQUEST | [The UE may request IPv4 or IPv4v6 address as PDP type.] |
| 6 | E-USS/NB-SS → ME | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST | [The E-UTRAN parameters are used] |
| 7 | ME → E-USS/NB-SS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT |  |
| 8 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 3.3.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 3.3.1B | [Command performed successfully] |
| 9 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.3.1.1 |  |
| 10 | ME → UICC | FETCH |  |
| 11 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 3.3.1.1 |  |
| 12 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 3.3.1.1A | [Command performed successfully] No PDP Deactivation expected |
| 13 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 3.3.1 |  |
| 14 | ME → UICC | FETCH |  |
| 15 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 3.3.1 |  |
| 16 | ME → USER | The ME may display channel opening information |  |
| 17 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 3.3.1A  or  TERMINAL RESPONSE: OPEN CHANNEL 3.3.1B | [Command performed successfully].It shall re-use same PDN for Current Proactive Command |
| 18 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.2.1 |  |
| 19 | ME → UICC | FETCH |  |
| 20 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 3.2.1 |  |
| 21 | ME → E-USS/NB-SS | The ME shall send a PDN CONNECTIVITY DISCONNECT REQUEST to the network disconnect only the EPS bearer which has been established with the Open Channel command | If the ME supports A.1/173 this step is optional. |
| 22 | E-USS/NB-SS → ME | DEACTIVATE EPS BEARER CONTEXT REQUEST |  |
| 23 | ME → E-USS/NB-SS | DEACTIVATE EPS BEARER CONTEXT ACCEPT |  |
| 24 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 3.2.1 | [Command performed successfully] |
| 25 | USER → ME | Wait 30 seconds then switch off the terminal |  |

PROACTIVE COMMAND: OPEN CHANNEL 3.3.1.

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC

Destination device: ME

Bearer

Bearer type: GPRS / UTRAN packet service / E-UTRAN

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1000

Network access name: TestGp.rs

Text String: UserLog (User login)

Text String: UserPwd (User password)

UICC/ME interface transport level

Transport format: UDP

Port number: 44444

Data destination address 01.01.01.01

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV | D0 | 42 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|  | 07 | 02 | 03 | 04 | 03 | 04 | 1F | 02 | 39 | 02 | 03 | E8 |
|  | 47 | 0A | 06 | 54 | 65 | 73 | 74 | 47 | 70 | 02 | 72 | 73 |
|  | 0D | 08 | F4 | 55 | 73 | 65 | 72 | 4C | 6F | 67 | 0D | 08 |
|  | F4 | 55 | 73 | 65 | 72 | 50 | 77 | 64 | 3C | 03 | 01 | AD |
|  | 9C | 3E | 05 | 21 | 01 | 01 | 01 | 01 |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 3.3.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS / UTRAN packet service / E-UTRAN

Bearer parameter:

Precedence Class: 03

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 03 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 03 | E8 |  |  |  |  |  |  |  |

TERMINAL RESPONSE: OPEN CHANNEL 3.3.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS / UTRAN packet service / E-UTRAN

Bearer parameter:

Precedence Class: 00

Delay Class: 04

Reliability Class: 03

Peak throughput class: 04

Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1000

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|  | 38 | 02 | 81 | 00 | 35 | 07 | 02 | 00 | 04 | 03 | 04 | 1F |
|  | 02 | 39 | 02 | 03 | E8 |  |  |  |  |  |  |  |

PROACTIVE COMMAND: CLOSE CHANNEL 3.3.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 41 | 01 | 82 | 02 | 81 | 21 |

TERMINAL RESPONSE: CLOSE CHANNEL 3.3.1.1A

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

27.22.4.28.3.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 3.1 to 3.3.

##### 27.22.4.28.4 CLOSE CHANNEL(NG-RAN)

27.22.4.28.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.28.4.2 Conformance requirements

The ME shall support the class "e" commands and NG-RAN as defined in:

- TS 31.111[15] clause 5.2, clauses 6.4.27 and 6.6.27, clause 8.6, clause 8.7, clause 9.2, clause 8.2, clause 8.15, clause 8.52, clause 8.59, clause 8.61,

- TS 24.501 [40], clauses 6.2.2 and 6.2.3,

- TS 23.501 [41], clauses 5.15.5.2 and 5.15.5.3,

- TS 23.503 [42], clause 6.6.2,

- TS 24.526 [43], clause 4.1, 4.2.2, 5.2 and 5.15.5.3,

- TS 23.003 [44], clause 9A,

27.22.4.28.4.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or

- TERMINAL RESPONSE (Bearer Independent Protocol Error, invalid channel identifier);

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

27.22.4.28.4.4 Method of Test

27.22.4.28.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the NG-SS. Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The default NG-RAN UICC, the default NG-RAN parameters and the URSP rules stored in the ME are same as defined in clause 27.22.4.27.8.4.1.

The Channel identifier value used for these tests is set to 1 as an example.

This channel identifier is dependent on the ME's default channel identifier as declared in table A.2/27.

Prior to test case execution the apparatus supplier shall have provided the "Preferred buffer size supported by the terminal for Open Channel command" as requested in table A.2/29.

27.22.4.28.4.4.2 Procedure

**Expected sequence 4.1 (CLOSE CHANNEL, NG-RAN, bearer type '03' – Default PDU Session, successful)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Direction** | **MESSAGE / Action** | **Comments** |
| 1 | USER → ME | Set and configure URSP rules with DNN "TestGp.rs" in the terminal configuration if required.  Internet PDU session using DNN "internet" is configured in the terminal. | [see initial conditions] |
| 2 | ME → NG-SS | ME successfully REGISTER with NG-RAN cell. |  |
| 3 | ME → NG-SS | An Internet PDU Session is established successfully. |  |
| 4 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 4.1.1 |  |
| 5 | ME → UICC | FETCH |  |
| 6 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 4.1.1 |  |
| 7 | ME → USER | The ME may display channel opening information. |  |
| 8 | ME → NG-SS | The terminal shall not send a PDU SESSION ESTABLISHMENT REQUEST to the network. |  |
| 9 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 4.1.1 | [Command performed successfully] |
| 10 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 4.1.1 |  |
| 11 | ME → UICC | FETCH |  |
| 12 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 4.1.1 |  |
| 13 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 4.1.1 | [Command performed successfully] |
| 14 | USER → ME | Wait 30 seconds, then switch off the terminal |  |

PROACTIVE COMMAND: OPEN CHANNEL 4.1.1

Same as in PROACTIVE COMMAND: OPEN CHANNEL 6.5.1 in sequence 6.5

TERMINAL RESPONSE: OPEN CHANNEL 4.1.1

Same as in TERMINAL RESPONSE: OPEN CHANNEL 6.5.1A in sequence 6.5

PROACTIVE COMMAND: CLOSE CHANNEL 4.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |

TERMINAL RESPONSE: CLOSE CHANNEL 4.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |

**Expected Sequence 4.2 (CLOSE CHANNEL, NG-RAN, bearer type '0C', successful)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Direction** | **MESSAGE / Action** | **Comments** |
| 1 | USER → ME | Set and configure URSP rules with DNN "TestGp.rs" in the terminal configuration if required.  Internet PDU session using DNN "internet" is configured in the terminal. | [see initial conditions] |
| 2 | ME → NG-SS | ME successfully REGISTER with NG-RAN cell. |  |
| 3 | ME → NG-SS | An Internet PDU Session is established successfully. |  |
| 4 | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 4.2.1 |  |
| 5 | ME → UICC | FETCH |  |
| 6 | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 4.2.1 |  |
| 7 | ME → USER | The ME may display channel opening information. |  |
| 8 | ME → NG-SS | PDU SESSION ESTABLISHMENT REQUEST within UL NAS TRANSPORT is sent to the network. | DNN=TestGp.rs, S-NSSAI='01 01 01 02', SSC mode=1. |
| 9 | NG-SS → ME | PDU SESSION ESTABLISHMENT ACCEPT |  |
| 10 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 4.2.1 | [Command performed successfully] |
| 11 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 4.2.1 |  |
| 12 | ME → UICC | FETCH |  |
| 13 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 4.2.1 |  |
| 14 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 4.2.1 | [Command performed successfully] |
| 15 | USER → ME | Wait 30 seconds, then switch off the terminal |  |

PROACTIVE COMMAND: OPEN CHANNEL 4.2.1

Same as in PROACTIVE COMMAND: OPEN CHANNEL 8.2.1 in sequence 8.2

TERMINAL RESPONSE: OPEN CHANNEL 4.2.1

Same as in TERMINAL RESPONSE: OPEN CHANNEL 8.2.1 in sequence 8.2

PROACTIVE COMMAND: CLOSE CHANNEL 4.2.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |

TERMINAL RESPONSE: CLOSE CHANNEL 4.2.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |