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**Universal Mobile Telecommunications System (UMTS);  
LTE;  
Mobile Equipment (ME) conformance test specification;  
Universal Subscriber Identity Module  
Application Toolkit (USAT) conformance test specification  
(3GPP TS 31.124 version 11.2.0 Release 11)**



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## Foreword

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# Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

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# 1 Scope

The present document describes the technical characteristics and methods of test for testing the USIM Application Toolkit implemented in 3<sup>rd</sup> Generation Mobile Equipments (ME) or Mobile Station (MS) for the 3G and 2G digital cellular communications systems within the 3GPP digital cellular telecommunications system, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [19] and ETSI ETS 300 406 [20].

The present document is valid for ME implemented according to 3GPP Release 99, or Release 4, or Release 5, or Release 6, or Release 7 or Release 8.

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

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

The present document is part of the 3GPP-series of technical specifications. The present document neither replaces any of the other 3GPP technical specifications or 3GPP related ETSs or ENs, nor is it created to provide full understanding of (or parts of) the UMTS. The present document lists the requirements, and provides the methods of test for testing the USIM Application Toolkit implemented in a ME for conformance to the 3GPP standard.

For a full description of the system, reference should be made to all the 3GPP technical specifications or 3GPP related ETSs, ETSs or ENs. Clause 2 provides a complete list of the 3GPP technical specifications, 3GPP related ETSI's EtSs, ENs, and ETRs, on which this conformance test specifications is based.

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

Within the context of this document, the term "terminal" used in ETSI TS 102 384 [26] refers to the Mobile Equipment (ME).

Within the context of this document, the term "UICC" used in ETSI TS 102 384 [26] refers to the USIM card.

Within the context of this document, the term "NAA" used in ETSI TS 102 384 [26] refers to the USIM application.

For the avoidance of doubt, references to clauses of ETSI TS 102 384 [26] or ETSI TS 102 221 [13] include all the subclauses of that clause, unless specifically mentioned.

The target test specification ETSI TS 102 384 [26] contains material that is outside of the scope of 3GPP requirements and the present document indicates which parts are in the scope and which are not.

A 3GPP ME may support functionality that is not required by 3GPP, but the requirements to do so are outside of the scope of 3GPP. Thus the present document does not contain tests or references to ETSI TS 102 384 [26] tests for features which are out of scope of 3GPP.

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the relevant Release*.
- References to 3GPP Technical Specifications and Technical Reports throughout the present document shall be interpreted according to the Release shown in the formal reference in this clause, based upon the Release of the implementation under test.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 22.001: "Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)".
- [3] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".
- [4] 3GPP TS 22.004: "General on supplementary services".
- [5] ETSI TS 101 220: "ETSI numbering system for telecommunication application providers"
- [6] 3GPP TS 21.904: "UE capability requirements"
- [7] 3GPP TS 23.038: "Alphabets and language-specific information".
- [8] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
- [9] 3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".
- [10] 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core network protocols; Stage 3".
- [11] 3GPP TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) Support on mobile radio interface".
- [12] 3GPP TS 34.108: "Common test environments for User Equipment (UE) conformance testing".
- [13] ETSI TS 102 221 v3.18.0: "UICC-Terminal interface; Physical and logical characteristics".
- [14] 3GPP TS 31.102: "Characteristics of the USIM application".
- [15] 3GPP TS 31.111: "USIM Application Toolkit (USAT)"
- [16] Void
- [17a] ISO/IEC 10646-1: "Information technology - Universal Multiple Octet Coded Character Set (UCS) - Part 1: Architecture and Basic Multilingual Plane".
- [17b] ISO/IEC 10646-2: "Information technology - Universal Multiple Octet Coded Character Set (UCS) - Part 2: Supplementary Planes".
- [18] 3GPP TS 27.007: "AT command set for 3G User Equipment (UE)".
- [19] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [20] ETSI ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

- [21] 3GPP TS 31.121: "UICC-terminal interface; USIM application test specification"
- [22] 3GPP TS 22.101: "Service Aspects; Service principles"
- [23] 3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance specification"
- [24] Void.
- [25] TIA/IS-820-A: "Removable User Identity Module (R-UIM) for TIA/EIA Spread Spectrum System".
- [26] ETSI TS 102 384: "Smart cards; UICC-Terminal interface; Card Application Toolkit (CAT) conformance specification".
- [27] 3GPP TS 34.123-3: "User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATs)".
- [28] 3GPP TS 31.115: "Secured packet structure for (U)SIM Toolkit applications".
- [29] 3GPP TS 23.122: "Non-Access Stratum functions related to Mobile Station (MS) in idle mode".
- [30] 3GPP TS 23.107: "Quality of Service (QoS) concept and architecture".
- [31] 3GPP TS 23.203: "Policy and charging control architecture".
- [32] 3GPP TS 24.301: "Technical Specification Group Core Network and Terminals; Non-Access-Stratum (NAS) protocol for Evolved Packet Systems (EPS): Stage 3".
- [33] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing".
- [34] 3GPP TS 36.523-2 " Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification;Part 2: Implementation Conformance Statement (ICS) proforma specification"
- [35] 3GPP TS 31.103: "Characteristics of the IP Multimedia Services Identity Module (ISIM) application".
- [36] 3GPP TS 34.229-1: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [37] 3GPP TS 24.341: "Support of SMS over IP networks".
- [38] 3GPP TS 24.229: "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

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## 3 Definitions and abbreviations

### 3.1 Mobile station definition and configurations

The mobile station definition and configurations specified in TS 34.108 [12] and TS 36.508 [33] shall apply, unless otherwise specified in the present clause.

## 3.2 Applicability

### 3.2.1 Applicability of the present document

The present specification applies to a terminal equipment that supports the USIM Application Toolkit optional feature.

### 3.2.2 Applicability of the individual tests

Table A.1 lists the optional features for which the supplier of the implementation states the support.

### 3.2.3 Applicability to terminal equipment

The applicability to terminal equipment specified in TS 34.108 [12] and TS 36.508 [33] shall apply, unless otherwise specified in the present clause.

Within the context of this document, the term "USS" refers to the "UMTS System Simulator" when accessing a UTRAN, to the "Evolved UMTS System Simulator" when accessing a E-UTRAN and to the "System Simulator" when accessing a GERAN.

See table B.1.

### 3.2.4 Definitions

For the purposes of the present document, the terms and definitions given in TS 34.108 [12] and TS 31.121 [21] apply.

#### 3.2.4.1 Format of the table of optional features

Option: The optional feature supported or not by the implementation.

Support Answer notation: The support columns shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [19], are used for the support column in the tables below.

|               |  |
|---------------|--|
| Y or y        | supported by the implementation  |
| N or n        | not supported by the implementation  |
| N/A, n/a or - | no answer required (allowed only if the status is N/A, directly or after evaluation of a conditional status) |

Mnemonic column: The Mnemonic column contains mnemonic identifiers for each item.

#### 3.2.4.2 Format of the applicability table

The applicability of every test in table B.1 is formally expressed by the use of Boolean expression defined in the following clause.

The columns in table B.1 have the following meaning:

- In the "Item" column a local entry number for the requirement in the table is given.
- In the "Description" column a short non-exhaustive description of the requirement is found.
- The "Release" column gives the Release applicable and onwards, for the item in the "Description" column
- The "Test Sequence(s)" column gives a reference to the test sequence number(s) detailed in the present document and required to validate the implementation of the corresponding item in the "Description" column.
- For a given Release, the corresponding "Rel X ME" column lists the tests required for a Mobile Station to be declared compliant to this Release.
- The "Support" column is blank in the proforma, and shall be completed by the manufacturer in respect of each particular requirement to indicate the choices, which have been made in the implementation.

- The "Network Dependency" column indicates if a test depends on specific network access technology or requires network connection, but the status may not have an impact on references to ETSI TS 102 384 [26].
- The "Terminal Profile" column gives a reference to the corresponding Terminal Profile bit(s) that is/are related to the toolkit feature(s) of the respective test(s).
- The "Additional test case execution parameter" column shall be used in conjunction with the entry in the "Rel-xx ME" column. The column indicates if the test is affected by additional test case execution parameters.

### 3.2.4.3 Status and notations

"Release X ME" columns show the status of the entries as follows:

The following notations, defined in ISO/IEC 9646-7 [19], are used for the status column:

|     |   |
|-----|---|
| M   | mandatory - the capability is required to be supported.   |
| O   | optional - the capability may be supported or not.  |
| N/A | not applicable - in the given context, it is impossible to use the capability.  |
| X   | prohibited (excluded) - there is a requirement not to use this capability in the given context.   |
| O.i | qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.   |
| Ci  | conditional - the requirement on the capability ("M", "O", "X" or "N/A") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." shall be used to avoid ambiguities. |

The "Additional test case execution parameter" column shows the status of the entries as follows:

|       |   |
|-------|---|
| TCEPi | Test Case Execution Parameter –defines additional parameters which have to be taken into account when executing affected test case(s). "i" is an integer identifying an unique parameter which is defined immediately following the table.  |
| A     | applicable - the test is applicable according to the corresponding entry in the "Rxx ME" column   |
| R(x)  | redundant – the test has to be considered as redundant when the corresponding E-UTRAN/EPC related test "x" of the present document has been validated and successfully executed. In that case the requirement may be verified by means of the E-UTRAN/EPC functionality only.   |
| AERi  | Additional test case Execution Recommendation – with respect to the above listed definitions of ("A") and ("R") the test is applicable ("A") or redundant ("R") depending on the support of other optional or conditional items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." shall be used to avoid ambiguities. |

References to items: For each possible item answer (answer in the support column) there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE: A.1/4 is the reference to the answer of item 4 in table A.1.

## 3.3 Table of optional features

Support of USIM Application Toolkit is optional for Mobile Equipment. However, if an ME states conformance with a specific 3GPP release, it is mandatory for the ME to support all functions of that release, as stated in table B.1.



The support of letter classes, which specify mainly ME hardware dependent features, is optional for the ME and may supplement the USIM Application Toolkit functionality described in the present document. If an ME states conformance to a letter class, it is mandatory to support all functions within the respective letter class.

The supplier of the implementation shall state the support of possible options in table A.1.

**Table A.1: Options**

| Item | Option   | Status | Support | Mnemonic     |
|------|--|--------|---------|--------------|
| 1    | Capability Configuration parameter                                     | M      |         | O_Cap_Conf   |
| 2    | Sustained text   | C002   |         | O_sust_text  |
| 3    | UCS2 coding scheme for Entry   | O      |         | O_Ucs2_Entry |
| 4    | Extended Text String   | C002   |         | O_Ext_Str    |
| 5    | Help information   | O      |         | O_Help       |
| 6    | Icons  | O      |         | O_Icons      |
| 7    | Class A: Dual Slot   | O      |         | O_Dual_Slot  |
| 8    | Detachable reader  | O      |         | O_Detach_Rdr |
| 9    | Class B: RUN AT  | O      |         | O_Run_At     |
| 10   | Class C: LAUNCH BROWSER  | O      |         | O_LB         |
| 11   | Class D: Soft keys   | O      |         | O_Soft_key   |
| 12   | Class E: B.I.P related to CSD  | O      |         | O_BIP_CSD    |
| 13   | Screen sizing parameters   | O      |         | O_Scr_Siz    |
| 14   | Screen Resizing  | O      |         | O_Scr_Resiz  |
| 15   | UCS2 coding scheme for Display   | O      |         | O_Ucs2_Displ |
| 16   | Mobile supporting GPRS   | O      |         | O_GPRS       |
| 17   | Mobile supporting UDP  | O      |         | O_UDP        |
| 18   | Mobile supporting TCP  | O      |         | O_TCP        |
| 19   | Redial in Set Up Call  | O      |         | O_Redial     |
| 20   | Mobile decision to respond with "No response from user" in finite time | O      |         | O_D_NoResp   |
| 21   | Class E: B.I.P related to GPRS   | O      |         | O_BIP_GPRS   |
| 22   | Mobile supporting Called Party Subaddress                              | O      |         | O_CP_Subaddr |
| 23   | Immediate response   | O      |         | O_Imm_Resp   |
| 24   | Variable Timeout   | O      |         | O_Duration   |
| 25   | void   |        |         |              |
| 26   | Class F: B.I.P related to local bearer                                 | O      |         | O_BIP_Local  |
| 27   | BlueTooth Support  | O      |         | O_BT         |
| 28   | IrDA Support   | O      |         | O_IrDA       |
| 29   | RS232 Support  | O      |         | O_RS232      |
| 30   | USB Support  | O      |         | O_USB        |
| 31   | WML Browser Support  | O      |         | O_WML        |

|    |   |   |  |   |
|----|---|---|--|---|
| 32 | XHTML Browser Support   | O |  | O_XHTML                                 |
| 33 | HTML Browser Support  | O |  | O_HTML                                  |
| 34 | CHTML Browser Support   | O |  | O_CHTML                                 |
| 35 | Class G: Battery Data   | O |  | O_Batt                                  |
| 36 | Class H: Multimedia Call Support  | O |  | O_Xmedia_Call                           |
| 37 | Class I: Frame support  | O |  | O_Frames                                |
| 38 | Class J: Multimedia Messaging Support   | O |  | O_MMS                                   |
| 39 | ME requesting for user confirmation before sending the Envelope Call Control command  | O |  | O_UC_Before_EnvCC                       |
| 40 | ME requesting for user confirmation after sending the Envelope Call Control command   | O |  | O_UC_After_EnvCC                        |
| 41 | UCS2 in Cyrillic  | O |  | O_UCS2_Cyrillic                         |
| 42 | UCS2 in Chinese   | O |  | O_UCS2_Chinese                          |
| 43 | UCS2 in Katakana  | O |  | O_UCS2_Katakana                         |
| 44 | Mobile supporting Barred Dialling Numbers   | O |  | O_BDN                                   |
| 45 | Mobile supporting Fixed dialling numbers  | O |  | O_FDN                                   |
| 46 | Mobile supporting "+CIMI" in combination with Run AT Command  | O |  | O_+CIMI                                 |
| 47 | Mobile supporting "+CGMI" in combination with Run AT Command  | O |  | O_+CGMI                                 |
| 48 | Mobile supporting Open Channel (GPRS) not containing a Network Access Name TLV when no default Access Point Name is set in the terminal configuration | O |  | O_Open_Channel_GPRS_without_Default APN |
| 49 | Preferred buffer size supported by the terminal for Open Channel command is greater than 0 byte and less than 65535 bytes                             | O |  | O_BUFFER_SIZE                           |
| 50 | Text attributes – Alignment left  | O |  | O_TAT_AL                                |
| 51 | Text attributes – Alignment center  | O |  | O_TAT_AC                                |
| 52 | Text attributes – Alignment right   | O |  | O_TAT_AR                                |
| 53 | Text attributes – Font size normal  | O |  | O_TAT_FSN                               |
| 54 | Text attributes – Font size large   | O |  | O_TAT_FSL                               |
| 55 | Text attributes – Font size small   | O |  | O_TAT_FSS                               |
| 56 | Text attributes – Style normal  | O |  | O_TAT_SN                                |
| 57 | Text attributes – Style bold  | O |  | O_TAT_SB                                |
| 58 | Text attributes – Style italic  | O |  | O_TAT_SI                                |

|    |  |   |  |            |
|----|--|---|--|------------|
| 59 | Text attributes – Style underlined             | O |  | O_TAT_SU   |
| 60 | Text attributes – Style strikethrough          | O |  | O_TAT_SS   |
| 61 | Text attributes – Style text foreground colour | O |  | O_TAT_STFC |
| 62 | Text attributes – Style text background colour | O |  | O_TAT_STFB |
| 63 | Terminal supports Long ForwardToNumber         | O |  | O_longFTN  |

|    |   |      |  |   |
|----|---|------|--|---|
| 64 | Mobile supporting GERAN   | O    |  | O_GERAN                                   |
| 65 | Support of global phonebook   | C001 |  | O_Global_PB                               |
| 66 | HSDPA Support   | O    |  | O_HSDPA                                   |
| 67 | UTRAN PS with extended parameters Support   | O    |  | O_UTRAN_PS_Ext_Param                      |
| 68 | Terminal executes User confirmation phase before sending PDP context activation request | O    |  | O_User_Confirm_Before_PDP_Context_Request |
| 69 | ME supports Call Hold Supplementary Service   | O    |  | O_Serv_SS_HOLD                            |
| 70 | Class E: B.I.P. related to I-WLAN   | O    |  | O_I-WLAN                                  |
| 71 | Class K: Terminal Applications support  | O    |  | O_Terminal_Applications                   |
| 72 | Class E: Terminal supports TCP, UICC in Server Mode                                     | O    |  | O_TCP_UICC_ServerMode                     |
| 73 | Class E: Terminal supports TCP, Terminal in Server Mode                                 | O    |  | O_TCP_Terminal_ServerMode                 |
| 74 | Class E: Terminal supports UDP, UICC in Server Mode                                     | O    |  | O_UDP_Terminal_ServerMode                 |
| 75 | Void  |      |  |   |
| 76 | Void  |      |  |   |
| 77 | Void  |      |  |   |
| 78 | Terminal supports at least one supplementary service.                                   | O    |  | O_AddInfo_SS                              |
| 79 | Terminal supports "Call Forwarding Unconditional"                                       | O    |  | O_Serv_SS_CFU                             |
| 80 | Terminal supports "Calling Line Identification Restriction"                             | O    |  | O_Serv_SS_CLIR                            |
| 81 | Class N:Terminal supports "Geographical location discovery"                             | O    |  | O_Geo_Location_Discovery                  |
| 82 | Terminal supports melody and theme tones  | O    |  | O_M_T_Tones                               |
| 83 | Terminal supports Toolkit-initiated GBA   | O    |  | O_Toolkit_GBA                             |
| 84 | Terminal supports display capability  | C002 |  | O_No_Type_ND                              |
| 85 | Terminal supports keypad  | C002 |  | O_No_Type_NK                              |
| 86 | Terminal supports audio alerting  | C002 |  | O_No_Type_NA                              |
| 87 | Terminal supports speech call   | C002 |  | O_No_Type_NS                              |
| 88 | Terminal supports multiple languages  | C002 |  | O_No_Type_NL                              |
| 89 | Class P:USSD Data Download and application mode   | O    |  | O_USSD_Data_DL                            |
| 90 | Terminal displays icons as defined in record 1 of EF(IMG) for Display Text command      | O    |  | O_Icon_Rec1_Displ_Text                    |
| 91 | Terminal displays icons as defined in record 2 of EF(IMG) for Display Text command      | O    |  | O_Icon_Rec2_Displ_Text                    |
| 92 | Terminal displays icons as defined in record 5 of EF(IMG) for Display Text command      | O    |  | O_Icon_Rec5_Displ_Text                    |
| 93 | Terminal displays icons as defined in record 1 of EF(IMG) for Get Inkey command         | O    |  | O_Icon_Rec1_Get_Inkey                     |
| 94 | Terminal displays icons as defined in record 2 of EF(IMG) for Get Inkey command         | O    |  | O_Icon_Rec2_Get_Inkey                     |
| 95 | Terminal displays icons as defined in record 5 of EF(IMG) for Get Inkey command         | O    |  | O_Icon_Rec5_Get_Inkey                     |
| 96 | Terminal displays icons as defined in record 1 of EF(IMG) for Get Input command         | O    |  | O_Icon_Rec1_Get_Input                     |

|     |  |   |  |                          |
|-----|--|---|--|--------------------------|
| 97  | Terminal displays icons as defined in record 2 of EF(IMG) for Get Input command          | O |  | O_Icon Rec2_Get_Input    |
| 98  | Terminal displays icons as defined in record 5 of EF(IMG) for Get Input command          | O |  | O_Icon Rec5_Get_Input    |
| 99  | Terminal displays icons as defined in record 1 of EF(IMG) for Play Tone command          | O |  | O_Icon Rec1_Play_Tone    |
| 100 | Terminal displays icons as defined in record 2 of EF(IMG) for Play Tone command          | O |  | O_Icon Rec2_Play_Tone    |
| 101 | Terminal displays icons as defined in record 5 of EF(IMG) for Play Tone command          | O |  | O_Icon Rec5_Play_Tone    |
| 102 | Terminal displays icons as defined in record 1 of EF(IMG) for Set Up Menu command        | O |  | O_Icon_ Rec1_Set_Up_Menu |
| 103 | Terminal displays icons as defined in record 2 of EF(IMG) for Set Up Menu command        | O |  | O_Icon_ Rec2_Set_Up_Menu |
| 104 | Terminal displays icons as defined in record 5 of EF(IMG) for Set Up Menu command        | O |  | O_Icon_ Rec5_Set_Up_Menu |
| 105 | Terminal displays icons as defined in record 1 of EF(IMG) for Select Item command        | O |  | O_Icon_ Rec1_Select_Item |
| 106 | Terminal displays icons as defined in record 2 of EF(IMG) for Select Item command        | O |  | O_Icon_ Rec2_Select_Item |
| 107 | Terminal displays icons as defined in record 5 of EF(IMG) for Select Item command        | O |  | O_Icon_ Rec5_Select_Item |
| 108 | Terminal displays icons as defined in record 1 of EF(IMG) for Send Short Message command | O |  | O_Icon_ Rec1_Send_SM     |
| 109 | Terminal displays icons as defined in record 2 of EF(IMG) for Send Short Message command | O |  | O_Icon_ Rec2_Send_SM     |
| 110 | Terminal displays icons as defined in record 5 of EF(IMG) for Send Short Message command | O |  | O_Icon_ Rec5_Send_SM     |
| 111 | Terminal displays icons as defined in record 1 of EF(IMG) for Send SS command            | O |  | O_Icon_ Rec1_Send_SS     |
| 112 | Terminal displays icons as defined in record 2 of EF(IMG) for Send SS command            | O |  | O_Icon_ Rec2_Send_SS     |
| 113 | Terminal displays icons as defined in record 5 of EF(IMG) for Send SS command            | O |  | O_Icon_ Rec5_Send_SS     |
| 114 | Terminal displays icons as defined in record 1 of EF(IMG) for Send USSD command          | O |  | O_Icon_ Rec1_Send_USSD   |
| 115 | Terminal displays icons as defined in record 2 of EF(IMG) for Send USSD command          | O |  | O_Icon_ Rec2_Send_USSD   |
| 116 | Terminal displays icons as defined in record 5 of EF(IMG) for Send USSD command          | O |  | O_Icon_ Rec5_Send_USSD   |
| 117 | Terminal displays icons as defined in record 1 of EF(IMG) for Set Up Call command        | O |  | O_Icon_ Rec1_Set_Up_Call |
| 118 | Terminal displays icons as defined in record 2 of EF(IMG) for Set Up Call command        | O |  | O_Icon_ Rec2_Set_Up_Call |

|     |   |      |  |                                   |
|-----|---|------|--|-----------------------------------|
| 119 | Terminal displays icons as defined in record 5 of EF(IMG) for Set Up Call command           | O    |  | O_Icon_Rec5_Set_Up_Call           |
| 120 | Terminal displays icons as defined in record 1 of EF(IMG) for Set Up Idle Mode Text command | O    |  | O_Icon_Rec1_Set_Up_Idle_Mode_Text |
| 121 | Terminal displays icons as defined in record 2 of EF(IMG) for Set Up Idle Mode Text command | O    |  | O_Icon_Rec2_Set_Up_Idle_Mode_Text |
| 122 | Terminal displays icons as defined in record 5 of EF(IMG) for Set Up Idle Mode Text command | O    |  | O_Icon_Rec5_Set_Up_Idle_Mode_Text |
| 123 | Terminal displays icons as defined in record 1 of EF(IMG) for Run AT Command command        | O    |  | O_Icon_Rec1_Run_AT_Cmd            |
| 124 | Terminal displays icons as defined in record 2 of EF(IMG) for Run AT Command command        | O    |  | O_Icon_Rec2_Run_AT_Cmd            |
| 125 | Terminal displays icons as defined in record 5 of EF(IMG) for Run AT Command command        | O    |  | O_Icon_Rec5_Run_AT_Cmd            |
| 126 | Terminal displays icons as defined in record 1 of EF(IMG) for Send DTMF command             | O    |  | O_Icon_Rec1_Send_DTMF             |
| 127 | Terminal displays icons as defined in record 2 of EF(IMG) for Send DTMF command             | O    |  | O_Icon_Rec2_Send_DTMF             |
| 128 | Terminal displays icons as defined in record 5 of EF(IMG) for Send DTMF command             | O    |  | O_Icon_Rec5_Send_DTMF             |
| 129 | Terminal displays icons as defined in record 1 of EF(IMG) for Launch Browser command        | O    |  | O_Icon_Rec1_Launch_Browser        |
| 130 | Terminal displays icons as defined in record 2 of EF(IMG) for Launch Browser command        | O    |  | O_Icon_Rec2_Launch_Browser        |
| 131 | Terminal displays icons as defined in record 5 of EF(IMG) for Launch Browser command        | O    |  | O_Icon_Rec5_Launch_Browser        |
| 132 | Class E: Terminal does support eFDD   | O    |  | pc_BIP_eFDD                       |
| 133 | Class E: Terminal does support eTDD   | O    |  | pc_BIP_eTDD                       |
| 134 | Terminal supports UTRAN   | O    |  | O_UTRAN                           |
| 135 | Terminal supports E-UTRAN but neither UTRAN nor GERAN                                       | C003 |  | O_EUTRAN_NO_UTRAN_NO_GERAN        |
| 136 | CLASS Q: Terminal supports Event CSG Cell Selection   | O    |  | O_Event_CSG_Cell_Selection        |
| 137 | CLASS Q: Terminal supports CSG Cell Discovery   | O    |  | O_CSG_Cell_Discovery              |
| 138 | Terminal supports selection of default item in Select Item                                  | O    |  | O_Select_Item_Default_Item        |
| 139 | Terminal supports eFDD  | O    |  | pc_eFDD                           |
| 140 | Terminal supports eTDD  | O    |  | pc_eTDD                           |
| 141 | Terminal supports SM-over-IP-receiver   | O    |  | pc_SM-over-IP-receiver            |
| 142 | Terminal supports MO SMS over IMS   | O    |  | pc_MO_SM-over-IMS                 |
| 143 | Class K: Terminal supports Direct Communication Channel                                     | O    |  | O_Direct_Com_Channel              |
| 144 | Terminal supports Communication Control for IMS   | O    |  | O_CC_IMS                          |
| 145 | Class S: Terminal supports CAT over modem interface   | O    |  | O_CAT_Modem_Interface             |
| 146 | Class E and T: Event Incoming IMS Data  | O    |  | O_Event_Incoming_IMS_Data         |

|  |   |   |  |                          |
|--|---|---|--|--------------------------|
| 147  | Class E and T: Event IMS Registration                     | O |  | O_Event_IMS_Registration |
| 148  | Class E and T: UICC Access to IMS support                 | O |  | O_UICC_ACCESS_IMS        |
| 149  | Terminal supports SMS Cell Broadcast Data Download        | O |  | O_SMS-CB_Data_Download   |
| 150  | Terminal supports IMS                                     | O |  | O_IMS                    |
| 151  | Terminal operating in PS mode                             | O |  | O_PS_OPMODE              |
| 152  | Terminal supports Short Message Service (SMS) MT over SGs | O |  | O_SMS_SGs_MT             |
| 153  | Terminal supports Short Message Service (SMS) MO over SGs | O |  | O_SMS_SGs_MO             |
| C001 If terminal is implemented according to Rel-6 or later then M, else O   |   |   |  |                          |
| C002 If feature is implemented according to Rel-8 or later then O, else M. It is possible to implement the related features according to Rel-8 or later even if the generic toolkit implementation is according to a release earlier than Rel-8. |   |   |  |                          |
| C003 If terminal is implemented according to Rel-8 or later AND ((A.1/132 OR A.1/133) AND (NOT A.1/64) AND (NOT A.1/134)) THEN M ELSE N/A  |   |   |  |                          |



## 3.4 Applicability table

Table B.1: Applicability of tests

| Item | Description                                      | Re-lease | Test sequence (s) | Rel 99 ME              | Rel-4 ME               | Rel-5 ME               | Rel-6 ME               | Rel-7 ME               | Rel-8 ME               | Rel-9 ME               | Rel-10 ME              | Rel-11 ME              | Terminal Profile               | Network Dependency | Support | Additional test case execution parameter |
|------|--|----------|-------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------------|--------------------|---------|--|
| 1    | PROFILE DOWNLOAD 27.22.1                         | R99      | 1                 | M                      | M                      | M                      | M                      | M                      | M                      | M                      | M                      | M                      | E.1/1                          | No                 |         |  |
| 2    | Contents of the TERMINAL PROFILE command 27.22.2 | R99      |                   | M                      | M                      | M                      | M                      | M                      | M                      | M                      | M                      | M                      | E.1/1                          | No                 |         |  |
| 3    | Servicing of Proactive UICC Commands 27.22.3     | R99      |                   | M                      | M                      | M                      | M                      | M                      | M                      | M                      | M                      | M                      |                                | No                 |         |  |
| 4    | DISPLAY TEXT 27.22.4.1                           |          |                   |                        |                        |                        |                        |                        |                        |                        |                        |                        |                                |                    |         |  |
|      | Unpacked   | R99      | 1.1               | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | E.1/17 AND E.1/110             | No                 |         |  |
|      | Screen busy                                      | R99      | 1.2               | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | E.1/17 AND E.1/110             | No                 |         |  |
|      | high priority                                    | R99      | 1.3               | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | E.1/17 AND E.1/110             | No                 |         |  |
|      | Packed   | R99      | 1.4               | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | E.1/17 AND E.1/110             | No                 |         |  |
|      | clear after delay                                | R99      | 1.5               | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | E.1/17 AND E.1/110             | No                 |         |  |
|      | long text up to 160 bytes                        | R99      | 1.6               | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | E.1/17 AND E.1/110             | No                 |         |  |
|      | Backwards move in USIM session                   | R99      | 1.7               | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | E.1/17 AND E.1/110 AND E.1/111 | No                 |         |  |
|      | Session terminated by user                       | R99      | 1.8               | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | E.1/17 AND E.1/110 AND E.1/111 | No                 |         |  |
|      | Command not understood by ME                     | R99      | 1.9               | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | E.1/17 AND E.1/110             | No                 |         |  |
|      | no response from user                            | R99      | 2.1               | C120 AND C177 AND C178 | C120 AND C177 AND C178 | C120 AND C177 AND C178 | C120 AND C177 AND C178 | C120 AND C177 AND C178 | C120 AND C177 AND C178 | C120 AND C177 AND C178 | C120 AND C177 AND C178 | C120 AND C177 AND C178 | E.1/17 AND E.1/110 AND E.1/111 | No                 |         |  |
|      | Extension Text                                   | R99      | 3.1               | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | E.1/17 AND E.1/16 AND E.1/110  | No                 |         |  |
|      | sustained text                                   | R99      | 4.1, 4.2          | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | C177                   | E.1/17 AND E.1/65 AND E.1/110  | No                 |         |  |

| Item | Description                       | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME     | Rel-4<br>ME                        | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile  | Network<br>Dependen<br>cy                                     | Sup-<br>port | Additional test case<br>execution parameter |
|------|-----------------------------------|--------------|-------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|---|--------------|---|
|      | sustained text                    | R99          | 4.3                     | C177<br>AND<br>C178 | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/17 AND<br>E.1/65 AND<br>E.1/110 AND<br>E.1/111                 | No  |              |   |
|      | sustained text                    | R99          | 4.4                     | C177<br>AND<br>C180 | C177<br>AND<br>C180                | C177<br>AND<br>C180                | C177<br>AND<br>C180                | C177<br>AND<br>C180                | C177<br>AND<br>C180<br>AND<br>C183 | C177<br>AND<br>C180<br>AND<br>C183 | C177<br>AND<br>C180<br>AND<br>C183 | C177<br>AND<br>C180<br>AND<br>C183 | E.1/17<br>AND E.1/65<br>AND E.1/110                                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Icons – basic icon                | R99          | 5.1, 5.3                | C108<br>AND<br>C177 | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | E.1/17 AND<br>E.1/110  | No  |              |   |
|      | Icons – colour icon               | R99          | 5.2                     | C171<br>AND<br>C177 | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | E.1/17 AND<br>E.1/110  | No  |              |   |
|      | UCS2 display in Cyrillic          | R99          | 6.1                     | C118<br>AND<br>C177 | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | E.1/17 AND<br>E.1/15 AND<br>E.1/110                                | No  |              |   |
|      | Variable Timeout                  | Rel-4        | 7.1                     |                     | C126<br>AND<br>C177<br>AND<br>C178 | C126<br>AND<br>C177<br>AND<br>C178 | C126<br>AND<br>C177<br>AND<br>C178 | C126<br>AND<br>C177<br>AND<br>C178 | C126<br>AND<br>C177<br>AND<br>C178 | C126<br>AND<br>C177<br>AND<br>C178 | C126<br>AND<br>C177<br>AND<br>C178 | C126<br>AND<br>C177<br>AND<br>C178 | E.1/17 AND<br>E.1/137 AND<br>E.1/110 AND<br>E.1/111                | No  |              |   |
|      | Text attribute – left alignment   | Rel-5        | 8.1                     |                     |                                    | C153<br>AND<br>C177                | C153<br>AND<br>C177                | C153<br>AND<br>C177                | C153<br>AND<br>C177                | C153<br>AND<br>C177                | C153<br>AND<br>C177                | C153<br>AND<br>C177                | E.1/17 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110                | No  |              |   |
|      | Text attribute – center alignment | Rel-5        | 8.2                     |                     |                                    | C154<br>AND<br>C177                | C154<br>AND<br>C177                | C154<br>AND<br>C177                | C154<br>AND<br>C177                | C154<br>AND<br>C177                | C154<br>AND<br>C177                | C154<br>AND<br>C177                | E.1/17 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110                | No  |              |   |
|      | Text attribute – right alignment  | Rel-5        | 8.3                     |                     |                                    | C155<br>AND<br>C177                | C155<br>AND<br>C177                | C155<br>AND<br>C177                | C155<br>AND<br>C177                | C155<br>AND<br>C177                | C155<br>AND<br>C177                | C155<br>AND<br>C177                | E.1/17 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110                | No  |              |   |
|      | Text attribute – large font size  | Rel-5        | 8.4                     |                     |                                    | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | E.1/17 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 | No  |              |   |

| Item     | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME     | Rel-4<br>ME         | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile  | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|----------|---|--------------|-------------------------|---------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|---------------------------|--------------|---|
|          | Text attribute – small font size                      | Rel-5        | 8.5                     |                     |                     | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | E.1/17 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 | No                        |              |   |
|          | Text attribute – bold on                              | Rel-5        | 8.6                     |                     |                     | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | E.1/17 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 | No                        |              |   |
|          | Text attribute – italic on                            | Rel-5        | 8.7                     |                     |                     | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | E.1/17 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 | No                        |              |   |
|          | Text attribute – underlined on                        | Rel-5        | 8.8                     |                     |                     | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | E.1/17 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 | No                        |              |   |
|          | Text attribute – strikethrough on                     | Rel-5        | 8.9                     |                     |                     | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | E.1/17 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 | No                        |              |   |
|          | Text attribute – foreground and<br>background colours | Rel-5        | 8.10                    |                     |                     | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | E.1/17 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 | No                        |              |   |
|          | UCS2 display in Chinese                               | R99          | 9.1                     |                     |                     | C143<br>AND<br>C177                | C143<br>AND<br>C177                | C143<br>AND<br>C177                | C143<br>AND<br>C177                | C143<br>AND<br>C177                | C143<br>AND<br>C177                | C143<br>AND<br>C177                | E.1/17 AND<br>E.1/15 AND<br>E.1/110                                | No                        |              |   |
|          | UCS2 display in Katakana                              | R99          | 10.1                    |                     |                     | C145<br>AND<br>C177                | C145<br>AND<br>C177                | C145<br>AND<br>C177                | C145<br>AND<br>C177                | C145<br>AND<br>C177                | C145<br>AND<br>C177                | C145<br>AND<br>C177                | E.1/17 AND<br>E.1/15 AND<br>E.1/110                                | No                        |              |   |
|          | Frames  | Rel-6        | TBD                     |                     |                     |                                    |                                    |                                    |                                    |                                    |                                    |                                    | E.1/17 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110                | TBD                       |              |   |
| <b>5</b> | <b>GET INKEY 27.22.4.2</b>                            |              |                         |                     |                     |                                    |                                    |                                    |                                    |                                    |                                    |                                    |  |                           |              |   |
|          | prompt unpacked                                       | R99          | 1.1                     | C177<br>AND<br>C178 | C177<br>AND<br>C178 | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/18 AND<br>E.1/110 AND<br>E.1/111                               | No                        |              |   |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                    | Rel-4<br>ME                        | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile                                | Network<br>Dependen-<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|----------------------------|--------------|---|
|      | prompt packed   | R99          | 1.2                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/18 AND<br>E.1/110 AND<br>E.1/111               | No                         |              |   |
|      | Backwards move in UICC session                        | R99          | 1.3                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/18 AND<br>E.1/110 AND<br>E.1/111               | No                         |              |   |
|      | Session terminated by user                            | R99          | 1.4                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/18 AND<br>E.1/110 AND<br>E.1/111               | No                         |              |   |
|      | SMS alphabet  | R99          | 1.5                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/18 AND<br>E.1/110 AND<br>E.1/111               | No                         |              |   |
|      | Long text up to 160 bytes                             | R99          | 1.6                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/18 AND<br>E.1/110 AND<br>E.1/111               | No                         |              |   |
|      | no response from user                                 | R99          | 2.1                     | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/110 AND<br>E.1/111               | No                         |              |   |
|      | UCS2 display in Cyrillic                              | R99          | 3.1                     | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111 | No                         |              |   |
|      | UCS2 display, Long text up to 70<br>chars in Cyrillic | R99          | 3.2                     | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111 | No                         |              |   |
|      | UCS2 entry in Cyrillic                                | R99          | 4.1                     | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/14 AND<br>E.1/110 AND<br>E.1/111 | No                         |              |   |
|      | "Yes/No" response                                     | R99          | 5.1                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/18 AND<br>E.1/60 AND<br>E.1/110 AND<br>E.1/111 | No                         |              |   |
|      | Icons – basic icon                                    | R99          | 6.1, 6.2                | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/110 AND<br>E.1/111               | No                         |              |   |

| Item | Description                       | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                    | Rel-4<br>ME                        | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile   | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|-----------------------------------|--------------|-------------------------|------------------------------------|------------------------------------|---|---|---|---|---|---|---|---|---------------------------|--------------|---|
|      | Icons – colour icon               | R99          | 6.3, 6.4                | C171<br>AND<br>C177<br>AND<br>C178 | C171<br>AND<br>C177<br>AND<br>C178 | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | E.1/18 AND<br>E.1/110 AND<br>E.1/111  | No                        |              |   |
|      | Help information                  | R99          | 7.1                     | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | E.1/18 AND<br>E.1/110 AND<br>E.1/111  | No                        |              |   |
|      | Variable Timeout                  | Rel-4        | 8.1                     |                                    | C126<br>AND<br>C177<br>AND<br>C178 | C126<br>AND<br>C177<br>AND<br>C178                | C126<br>AND<br>C177<br>AND<br>C178                | C126<br>AND<br>C177<br>AND<br>C178                | C126<br>AND<br>C177<br>AND<br>C178                | C126<br>AND<br>C177<br>AND<br>C178                | C126<br>AND<br>C177<br>AND<br>C178                | C126<br>AND<br>C177<br>AND<br>C178                | E.1/18 AND<br>E.1/140 AND<br>E.1/110 AND<br>E.1/111                               | No                        |              |   |
|      | Text attribute – left alignment   | Rel-5        | 9.1                     |                                    |                                    | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | E.1/18 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – center alignment | Rel-5        | 9.2                     |                                    |                                    | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | E.1/18 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – right alignment  | Rel-5        | 9.3                     |                                    |                                    | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | E.1/18 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – large font size  | Rel-5        | 9.4                     |                                    |                                    | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – small font size  | Rel-5        | 9.5                     |                                    |                                    | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile   | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|-----------------|-------------|---|---|---|---|---|---|---|---|---------------------------|--------------|---|
|      | Text attribute – bold on                              | Rel-5        | 9.6                     |                 |             | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/124<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111     | No                        |              |   |
|      | Text attribute – italic on                            | Rel-5        | 9.7                     |                 |             | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/124<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 AND<br>E.1/111     | No                        |              |   |
|      | Text attribute – underlined on                        | Rel-5        | 9.8                     |                 |             | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/124<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 AND<br>E.1/111     | No                        |              |   |
|      | Text attribute – strikethrough on                     | Rel-5        | 9.9                     |                 |             | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/124<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 AND<br>E.1/111     | No                        |              |   |
|      | Text attribute – foreground and<br>background colours | Rel-5        | 9.10                    |                 |             | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | UCS2 display in Chinese                               | R99          | 10.1                    |                 |             | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | E.1/18 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | No                        |              |   |

| Item     | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME     | Rel-4<br>ME         | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile  | Network<br>Dependen-<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|----------|--|--------------|-------------------------|---------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|----------------------------|--------------|---|
|          | UCS2 display in Chinese, Long text up to 70 chars  | R99          | 10.2                    |                     |                     | C143<br>AND<br>C177<br>AND<br>C178 | C143<br>AND<br>C177<br>AND<br>C178 | C143<br>AND<br>C177<br>AND<br>C178 | C143<br>AND<br>C177<br>AND<br>C178 | C143<br>AND<br>C177<br>AND<br>C178 | C143<br>AND<br>C177<br>AND<br>C178 | C143<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                 | No                         |              |   |
|          | UCS2 entry in Chinese                              | R99          | 11.1                    |                     |                     | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/14 AND<br>E.1/110 AND<br>E.1/111                 | No                         |              |   |
|          | UCS2 display in Katakana                           | R99          | 12.1                    |                     |                     | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                 | No                         |              |   |
|          | UCS2 display in Katakana, Long text up to 70 chars | R99          | 12.2                    |                     |                     | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                 | No                         |              |   |
|          | UCS2 entry in Katakana                             | R99          | 13.1                    |                     |                     | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | E.1/18 AND<br>E.1/14 AND<br>E.1/110 AND<br>E.1/111                 | No                         |              |   |
|          | Frames   | Rel-6        | TBD                     |                     |                     |                                    |                                    |                                    |                                    |                                    |                                    |                                    | E.1/18 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110 AND<br>E.1/111 | TBD                        |              |   |
| <b>6</b> | <b>GET INPUT 27.22.4.3</b>                         |              |                         |                     |                     |                                    |                                    |                                    |                                    |                                    |                                    |                                    |  |                            |              |   |
|          | input unpacked                                     | R99          | 1.1                     | C177<br>AND<br>C178 | C177<br>AND<br>C178 | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111                               | No                         |              |   |
|          | input packed                                       | R99          | 1.2                     | C177<br>AND<br>C178 | C177<br>AND<br>C178 | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111                               | No                         |              |   |
|          | digits only  | R99          | 1.1                     | C177<br>AND<br>C178 | C177<br>AND<br>C178 | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111                               | No                         |              |   |
|          | SMS alphabet                                       | R99          | 1.3                     | C177<br>AND<br>C178 | C177<br>AND<br>C178 | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111                               | No                         |              |   |

| Item | Description   | Re-lease | Test sequence (s) | Rel 99 ME                          | Rel-4 ME                           | Rel-5 ME                           | Rel-6 ME                           | Rel-7 ME                           | Rel-8 ME                           | Rel-9 ME                           | Rel-10 ME                          | Rel-11 ME                          | Terminal Profile                                   | Network Dependency | Support | Additional test case execution parameter |
|------|---|----------|-------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|--------------------|---------|--|
|      | hidden input  | R99      | 1.4               | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111               | No                 |         |  |
|      | min / max acceptable length                                 | R99      | 1.5, 1.9          | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111               | No                 |         |  |
|      | Backwards move in UICC session                              | R99      | 1.6               | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111               | No                 |         |  |
|      | Session terminated by user                                  | R99      | 1.7               | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111               | No                 |         |  |
|      | Prompt text up to 160 bytes                                 | R99      | 1.8               | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111               | No                 |         |  |
|      | SMS default alphabet, ME to echo text, packing not required | R99      | 1.9               | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111               | No                 |         |  |
|      | Null length for the text string                             | R99      | 1.10              | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111               | No                 |         |  |
|      | no response from user                                       | R99      | 2.1               | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/110 AND<br>E.1/111               | No                 |         |  |
|      | UCS2 display in Cyrillic                                    | R99      | 3.1, 3.2          | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | C118<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111 | No                 |         |  |
|      | UCS2 entry in Cyrillic                                      | R99      | 4.1, 4.2          | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | C105<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/14 AND<br>E.1/110 AND<br>E.1/111 | No                 |         |  |
|      | default text for the input                                  | R99      | 5.1, 5.2          | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111               | No                 |         |  |
|      | Icons – basic icon  | R99      | 6.1, 6.2          | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | C108<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/110 AND<br>E.1/111               | No                 |         |  |



| Item | Description                       | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                    | Rel-4<br>ME                        | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile   | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|-----------------------------------|--------------|-------------------------|------------------------------------|------------------------------------|---|---|---|---|---|---|---|---|---------------------------|--------------|---|
|      | Icons – colour icon               | R99          | 6.3, 6.4                | C171<br>AND<br>C177<br>AND<br>C178 | C171<br>AND<br>C177<br>AND<br>C178 | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | C171<br>AND<br>C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111  | No                        |              |   |
|      | help information                  | R99          | 7.1                     | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | C107<br>AND<br>C177<br>AND<br>C178                | E.1/19 AND<br>E.1/110 AND<br>E.1/111  | No                        |              |   |
|      | Text attribute– left alignment    | Rel-5        | 8.1                     |                                    |                                    | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | E.1/19 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – center alignment | Rel-5        | 8.2                     |                                    |                                    | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | E.1/19 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – right alignment  | Rel-5        | 8.3                     |                                    |                                    | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | E.1/19 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – large font size  | Rel-5        | 8.4                     |                                    |                                    | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – small font size  | Rel-5        | 8.5                     |                                    |                                    | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile   | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|-----------------|-------------|---|---|---|---|---|---|---|---|---------------------------|--------------|---|
|      | Text attribute – bold on                              | Rel-5        | 8.6                     |                 |             | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – italic on                            | Rel-5        | 8.7                     |                 |             | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – underlined on                        | Rel-5        | 8.8                     |                 |             | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – strikethrough on                     | Rel-5        | 8.9                     |                 |             | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – foreground and<br>background colours | Rel-5        | 8.10                    |                 |             | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | UCS2 display in Chinese                               | R99          | 9.1, 9.2                |                 |             | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | E.1/19 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | No                        |              |   |

| Item     | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                    | Rel-4<br>ME                        | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile  | Network<br>Dependen<br>cy                                     | Sup-<br>port | Additional test case<br>execution parameter |
|----------|--|--------------|-------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|---|--------------|---|
|          | UCS2 entry in Chinese  | R99          | 10.1, 10.2              |                                    |                                    | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | C142<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/14 AND<br>E.1/110 AND<br>E.1/111                 | No  |              |   |
|          | UCS2 display in Katakana                                     | R99          | 11.1, 11.2              |                                    |                                    | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | C145<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                 | No  |              |   |
|          | UCS2 entry in Katakana                                       | R99          | 12.1, 12.2              |                                    |                                    | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | C144<br>AND<br>C177<br>AND<br>C178 | E.1/19 AND<br>E.1/14 AND<br>E.1/110 AND<br>E.1/111                 | No  |              |   |
|          | Frames   | Rel-6        | TBD                     |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    | E.1/19 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110 AND<br>E.1/111 | TBD   |              |   |
| <b>7</b> | <b>MORE TIME 27.22.4.4</b>                                   | R99          | 1.1                     | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | E.1/20   | No  |              |   |
| <b>8</b> | <b>PLAY TONE 27.22.4.5</b>                                   |              |                         |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |  |   |              |   |
|          | play all tones, display alpha, user termination, superimpose | R99          | 1.1                     | C178<br>AND<br>C179<br>AND<br>C180 | C178<br>AND<br>C179<br>AND<br>C180 | C178<br>AND<br>C179<br>AND<br>C180 | C178<br>AND<br>C179<br>AND<br>C180 | C178<br>AND<br>C179<br>AND<br>C180 | C178<br>AND<br>C179<br>AND<br>C180 | C178<br>AND<br>C179<br>AND<br>C180 | C178<br>AND<br>C179<br>AND<br>C180 | C178<br>AND<br>C179<br>AND<br>C180 | E.1/21 AND<br>E.1/110 AND<br>E.1/111                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|          | UCS2 display in Cyrillic                                     | R99          | 2.1                     | C118<br>AND<br>C179                | C118<br>AND<br>C179                | C118<br>AND<br>C179                | C118<br>AND<br>C179                | C118<br>AND<br>C179                | C118<br>AND<br>C179                | C118<br>AND<br>C179                | C118<br>AND<br>C179                | C118<br>AND<br>C179                | E.1/21 AND<br>E.1/15 AND<br>E.1/110                                | No  |              | TCEP001                                     |
|          | Icons – basic icon   | R99          | 3.1, 3.2                | C108<br>AND<br>C179                | C108<br>AND<br>C179                | C108<br>AND<br>C179                | C108<br>AND<br>C179                | C108<br>AND<br>C179                | C108<br>AND<br>C179                | C108<br>AND<br>C179                | C108<br>AND<br>C179                | C108<br>AND<br>C179                | E.1/21 AND<br>E.1/110  | No  |              | TCEP001                                     |
|          | Icons – colour icon  | R99          | 3.3, 3.4                | C171<br>AND<br>C179                | C171<br>AND<br>C179                | C171<br>AND<br>C179                | C171<br>AND<br>C179                | C171<br>AND<br>C179                | C171<br>AND<br>C179                | C171<br>AND<br>C179                | C171<br>AND<br>C179                | C171<br>AND<br>C179                | E.1/21 AND<br>E.1/110  | No  |              | TCEP001                                     |
|          | Text attribute – left alignment                              | Rel-5        | 4.1                     |                                    |                                    | C153<br>AND<br>C179                | C153<br>AND<br>C179                | C153<br>AND<br>C179                | C153<br>AND<br>C179                | C153<br>AND<br>C179                | C153<br>AND<br>C179                | C153<br>AND<br>C179                | E.1/21 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110                | No  |              | TCEP001                                     |

| Item | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile  | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|--|--------------|-------------------------|-----------------|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|---------------------------|--------------|---|
|      | Text attribute – center alignment                    | Rel-5        | 4.2                     |                 |             | C154<br>AND<br>C179                | C154<br>AND<br>C179                | C154<br>AND<br>C179                | C154<br>AND<br>C179                | C154<br>AND<br>C179                | C154<br>AND<br>C179                | C154<br>AND<br>C179                | E.1/21 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110                | No                        |              | TCEP001                                     |
|      | Text attribute – right alignment                     | Rel-5        | 4.3                     |                 |             | C155<br>AND<br>C179                | C155<br>AND<br>C179                | C155<br>AND<br>C179                | C155<br>AND<br>C179                | C155<br>AND<br>C179                | C155<br>AND<br>C179                | C155<br>AND<br>C179                | E.1/21 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110                | No                        |              | TCEP001                                     |
|      | Text attribute – large font size                     | Rel-5        | 4.4                     |                 |             | C157<br>AND<br>C156<br>AND<br>C179 | C157<br>AND<br>C156<br>AND<br>C179 | C157<br>AND<br>C156<br>AND<br>C179 | C157<br>AND<br>C156<br>AND<br>C179 | C157<br>AND<br>C156<br>AND<br>C179 | C157<br>AND<br>C156<br>AND<br>C179 | C157<br>AND<br>C156<br>AND<br>C179 | E.1/21 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 | No                        |              | TCEP001                                     |
|      | Text attribute – small font size                     | Rel-5        | 4.5                     |                 |             | C158<br>AND<br>C156<br>AND<br>C179 | C158<br>AND<br>C156<br>AND<br>C179 | C158<br>AND<br>C156<br>AND<br>C179 | C158<br>AND<br>C156<br>AND<br>C179 | C158<br>AND<br>C156<br>AND<br>C179 | C158<br>AND<br>C156<br>AND<br>C179 | C158<br>AND<br>C156<br>AND<br>C179 | E.1/21 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 | No                        |              | TCEP001                                     |
|      | Text attribute – bold on                             | Rel-5        | 4.6                     |                 |             | C160<br>AND<br>C159<br>AND<br>C179 | C160<br>AND<br>C159<br>AND<br>C179 | C160<br>AND<br>C159<br>AND<br>C179 | C160<br>AND<br>C159<br>AND<br>C179 | C160<br>AND<br>C159<br>AND<br>C179 | C160<br>AND<br>C159<br>AND<br>C179 | C160<br>AND<br>C159<br>AND<br>C179 | E.1/21 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 | No                        |              | TCEP001                                     |
|      | Text attribute – italic on                           | Rel-5        | 4.7                     |                 |             | C161<br>AND<br>C159<br>AND<br>C179 | C161<br>AND<br>C159<br>AND<br>C179 | C161<br>AND<br>C159<br>AND<br>C179 | C161<br>AND<br>C159<br>AND<br>C179 | C161<br>AND<br>C159<br>AND<br>C179 | C161<br>AND<br>C159<br>AND<br>C179 | C161<br>AND<br>C159<br>AND<br>C179 | E.1/21 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 | No                        |              | TCEP001                                     |
|      | Text attribute – underlined on                       | Rel-5        | 4.8                     |                 |             | C162<br>AND<br>C159<br>AND<br>C179 | C162<br>AND<br>C159<br>AND<br>C179 | C162<br>AND<br>C159<br>AND<br>C179 | C162<br>AND<br>C159<br>AND<br>C179 | C162<br>AND<br>C159<br>AND<br>C179 | C162<br>AND<br>C159<br>AND<br>C179 | C162<br>AND<br>C159<br>AND<br>C179 | E.1/21 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 | No                        |              | TCEP001                                     |
|      | Text attribute – strikethrough on                    | Rel-5        | 4.9                     |                 |             | C163<br>AND<br>C159<br>AND<br>C179 | C163<br>AND<br>C159<br>AND<br>C179 | C163<br>AND<br>C159<br>AND<br>C179 | C163<br>AND<br>C159<br>AND<br>C179 | C163<br>AND<br>C159<br>AND<br>C179 | C163<br>AND<br>C159<br>AND<br>C179 | C163<br>AND<br>C159<br>AND<br>C179 | E.1/21 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 | No                        |              | TCEP001                                     |
|      | Text attribute– foreground and<br>background colours | Rel-5        | 4.10                    |                 |             | C164<br>AND<br>C165<br>AND<br>C179 | C164<br>AND<br>C165<br>AND<br>C179 | C164<br>AND<br>C165<br>AND<br>C179 | C164<br>AND<br>C165<br>AND<br>C179 | C164<br>AND<br>C165<br>AND<br>C179 | C164<br>AND<br>C165<br>AND<br>C179 | C164<br>AND<br>C165<br>AND<br>C179 | E.1/21 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 | No                        |              | TCEP001                                     |

| Item      | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                                   | Rel-4<br>ME                                       | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile                                 | Network<br>Dependen<br>cy                                     | Sup-<br>port | Additional test case<br>execution parameter |
|-----------|---|--------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|--------------|---|
|           | UCS2 display in Chinese                                 | R99          | 5.1                     |   |   | C143<br>AND<br>C179                               | C143<br>AND<br>C179                               | C143<br>AND<br>C179                               | C143<br>AND<br>C179                               | C143<br>AND<br>C179                               | C143<br>AND<br>C179                               | C143<br>AND<br>C179                               | E.1/21 AND<br>E.1/15 AND<br>E.1/110                 | No  |              | TCEP001                                     |
|           | UCS2 display in Katakana                                | R99          | 6.1                     |   |   | C145<br>AND<br>C179                               | C145<br>AND<br>C179                               | C145<br>AND<br>C179                               | C145<br>AND<br>C179                               | C145<br>AND<br>C179                               | C145<br>AND<br>C179                               | C145<br>AND<br>C179                               | E.1/21 AND<br>E.1/15 AND<br>E.1/110                 | No  |              | TCEP001                                     |
|           | Frames  | Rel-6        | TBD                     |   |   |   |   |   |   |   |   |   | E.1/21 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110 | TBD   |              |   |
|           | Themed and Melody tones                                 | Rel-6        | TBD                     |   |   |   |   |   |   |   |   |   | E.1/21 AND<br>E.1/171 AND<br>E.1/110                | C138  |              |   |
| <b>9</b>  | <b>POLL INTERVAL 27.22.4.6</b>                          |              |                         |   |   |   |   |   |   |   |   |   |   |   |              |   |
|           | duration  | R99          | 1.1                     | M   | M   | M   | M   | M   | M   | M   | M   | M   | E.1/22  | No  |              |   |
| <b>10</b> | <b>REFRESH 27.22.4.7</b>                                |              |                         |   |   |   |   |   |   |   |   |   |   |   |              |   |
|           | USIM initialization, enabling FDN mode                  | R99          | 1.1                     | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | E.1/24 AND<br>E.1/110 AND<br>E.1/111                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|           | file change notification of FDN file                    | R99          | 1.2                     | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | E.1/24 AND<br>E.1/110 AND<br>E.1/111                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|           | USIM initialization and file change notification of ADN | R99          | 1.3                     | C168<br>AND<br>C177<br>AND<br>C178                | C168<br>AND<br>C177<br>AND<br>C178                | C168<br>AND<br>C177<br>AND<br>C178                | C177<br>AND<br>C178                               | C177<br>AND<br>C178                               | C177<br>AND<br>C178                               | C177<br>AND<br>C178                               | C177<br>AND<br>C178                               | C177<br>AND<br>C178                               | E.1/24 AND<br>E.1/110 AND<br>E.1/111                | No  |              |   |

| Item | Description  | Re-lease | Test sequence (s) | Rel 99 ME   | Rel-4 ME  | Rel-5 ME  | Rel-6 ME  | Rel-7 ME  | Rel-8 ME   | Rel-9 ME   | Rel-10 ME  | Rel-11 ME  | Terminal Profile                     | Network Dependency                             | Support | Additional test case execution parameter |
|------|--|----------|-------------------|---|---|---|---|---|--|--|--|--|--------------------------------------|--|---------|--|
|      | USIM initialization and full file change notification, enabling FDN mode | R99      | 1.4               | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/24 AND<br>E.1/110 AND<br>E.1/111 | UMTS System Simulator or System Simulator only |         |  |
|      | UICC reset   | R99      | 1.5               |   |   |   | M   | M   | M  | M  | M  | M  | E.1/24                               | No   |         |  |
|      | USIM Initialization after SMS-PP data download                           | R99      | 1.6               | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/24 AND<br>E.1/110 AND<br>E.1/111 | UMTS System Simulator or System Simulator only |         |  |
|      | USIM Application Reset   | R99      | 1.7               |   |   |   | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/24 AND<br>E.1/110 AND<br>E.1/111 | UMTS System Simulator or System Simulator only |         |  |
|      | UICC Reset for IMSI Changing procedure                                   | R99      | 2.1               |   |   |   |   |   |  |  |  |  |                                      | TBD  |         |  |
|      | USIM Application Reset for IMSI Changing procedure                       | R99      | 2.2               |   |   |   | M   | M   | M  | M  | M  | M  | E.1/24                               | Yes  |         |  |
|      | 3G Session Reset for IMSI Changing procedure                             | R99      | 2.3               |   |   |   |   |   |  |  |  |  |                                      | TBD  |         |  |
|      | reject 3G Session Reset for IMSI Changing procedure during call          | R99      | 2.4               |   |   |   | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | E.1/24 AND<br>E.1/110 AND<br>E.1/111 | UMTS System Simulator or System Simulator only |         |  |

| Item      | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                    | Rel-4<br>ME                        | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile                               | Network<br>Dependen-<br>cy                                | Sup-<br>port | Additional test case<br>execution parameter |
|-----------|--|--------------|-------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---|---|--------------|---|
|           | Steering of roaming, UTRAN                         | Rel-7        | 3.1                     |                                    |                                    |                                    |                                    | M                                  | C184                               | C184                               | C184                               | C184                               | E.1/24 AND<br>E.1/236                             | UMTS<br>System<br>Simulator<br>only                       |              |   |
|           | Steering of roaming, InterRAT                      | Rel-7        | 3.2                     |                                    |                                    |                                    |                                    | C167                               | C167<br>AND<br>C184                | C167<br>AND<br>C184                | C167<br>AND<br>C184                | C167<br>AND<br>C184                | E.1/24 AND<br>E.1/236                             | UMTS<br>System<br>Simulator<br>and<br>System<br>Simulator |              |   |
|           | Steering of roaming, E-UTRAN                       | Rel-8        | 3.3                     |                                    |                                    |                                    |                                    |                                    | C190                               | C190                               | C190                               | C190                               | E.1/24 AND<br>AND E.1/135<br>AND E.1/236          | E-USS<br>only   |              |   |
|           | Refresh with AID, E-UTRAN or<br>UTRAN              | Rel-8        | 4.1                     |                                    |                                    |                                    |                                    | C202                               | C202<br>OR<br>C203                 | C202<br>OR<br>C203                 | C202<br>OR<br>C203                 | C202<br>OR<br>C203                 | E.1/24  | E-USS<br>only or<br>UMTS<br>System<br>Simulator           |              |   |
| <b>11</b> | <b>SET UP MENU 27.22.4.8</b>                       |              |                         |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |   |   |              |   |
|           | Set up, menu selection, replace<br>and remove menu | R99          | 1.1                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/30 AND<br>E.1/4 AND<br>E.1/110 AND<br>E.1/111 | No  |              |   |
|           | Large menu   | R99          | 1.2                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/30 AND<br>E.1/4 AND<br>E.1/110 AND<br>E.1/111 | No  |              |   |
|           | help information                                   | R99          | 2.1                     | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | E.1/30 AND<br>E.1/4 AND<br>E.1/110 AND<br>E.1/111 | No  |              |   |
|           | next action indicator                              | R99          | 3.1                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/30 AND<br>E.1/110 AND<br>E.1/111              | No  |              |   |
|           | Icons  | R99          | 4.1, 4.2                | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | E.1/30 AND<br>E.1/110 AND<br>E.1/111              | No  |              |   |

| Item | Description                       | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                    | Rel-4<br>ME                        | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile   | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|-----------------------------------|--------------|-------------------------|------------------------------------|------------------------------------|---|---|---|---|---|---|---|---|---------------------------|--------------|---|
|      | soft key access                   | R99          | 5.1                     | C112<br>AND<br>C177<br>AND<br>C178 | C112<br>AND<br>C177<br>AND<br>C178 | C112<br>AND<br>C177<br>AND<br>C178                | C112<br>AND<br>C177<br>AND<br>C178                | C112<br>AND<br>C177<br>AND<br>C178                | C112<br>AND<br>C177<br>AND<br>C178                | C112<br>AND<br>C177<br>AND<br>C178                | C112<br>AND<br>C177<br>AND<br>C178                | C112<br>AND<br>C177<br>AND<br>C178                | E.1/30 AND<br>E.1/74 AND<br>E.1/110 AND<br>E.1/111                                | No                        |              |   |
|      | Text attribute – left alignment   | Rel-5        | 6.1                     |                                    |                                    | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | E.1/30 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – center alignment | Rel-5        | 6.2                     |                                    |                                    | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | E.1/30 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – right alignment  | Rel-5        | 6.3                     |                                    |                                    | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | E.1/30 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – large font size  | Rel-5        | 6.4                     |                                    |                                    | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | E.1/30 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – small font size  | Rel-5        | 6.5                     |                                    |                                    | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | E.1/30 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – bold on          | Rel-5        | 6.6                     |                                    |                                    | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/30 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |



| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile   | Network<br>Dependen-<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|-----------------|-------------|---|---|---|---|---|---|---|---|----------------------------|--------------|---|
|      | Text attribute – italic on                            | Rel-5        | 6.7                     |                 |             | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/30 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 AND<br>E.1/111 | No                         |              |   |
|      | Text attribute – underlined on                        | Rel-5        | 6.8                     |                 |             | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/30 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 AND<br>E.1/111 | No                         |              |   |
|      | Text attribute – strikethrough on                     | Rel-5        | 6.9                     |                 |             | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/30 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 AND<br>E.1/111 | No                         |              |   |
|      | Text attribute – foreground and<br>background colours | Rel-5        | 6.10                    |                 |             | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | E.1/30 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 AND<br>E.1/111 | No                         |              |   |
|      | UCS2 display in Cyrillic                              | R99          | 7.1                     |                 |             | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | E.1/39 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | No                         |              |   |
|      | UCS2 display in Chinese                               | R99          | 8.1                     |                 |             | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | E.1/39 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | No                         |              |   |
|      | UCS2 display in Katakana                              | R99          | 9.1                     |                 |             | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | E.1/39 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | No                         |              |   |
| 12   | <b>SELECT ITEM 27.22.4.9</b>                          |              |                         |                 |             |   |   |   |   |   |   |   |   |                            |              |   |

| Item                  | Description | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                    | Rel-4<br>ME                        | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile                                | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|-----------------------|-------------|--------------|-------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|---------------------------|--------------|---|
| Mandatory features    |             | R99          | 1.1                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/25 AND<br>E.1/110 AND<br>E.1/111               | No                        |              |   |
| Large menu            |             | R99          | 1.2, 1.3,<br>1.5,1.6    | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/25 AND<br>E.1/110 AND<br>E.1/111               | No                        |              |   |
| Backwards move        |             | R99          | 1.4                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/25 AND<br>E.1/110 AND<br>E.1/111               | No                        |              |   |
| user termination      |             | R99          | 1.5                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/25 AND<br>E.1/110 AND<br>E.1/111               | No                        |              |   |
| next action indicator |             | R99          | 2.1                     | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/25 AND<br>E.1/110 AND<br>E.1/111               | No                        |              |   |
| default selected item |             | R99          | 3.1                     | C177<br>AND<br>C178<br>AND<br>C194 | C177<br>AND<br>C178<br>AND<br>C194 | C177<br>AND<br>C178<br>AND<br>C194 | C177<br>AND<br>C178<br>AND<br>C194 | C177<br>AND<br>C178<br>AND<br>C194 | C177<br>AND<br>C178<br>AND<br>C194 | C177<br>AND<br>C178<br>AND<br>C194 | C177<br>AND<br>C178<br>AND<br>C194 | C177<br>AND<br>C178<br>AND<br>C194 | E.1/25 AND<br>E.1/110 AND<br>E.1/111               | No                        |              |   |
| help information      |             | R99          | 4.1                     | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | C107<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/110 AND<br>E.1/111               | No                        |              |   |
| Icons                 |             | R99          | 5.1, 5.2                | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | C172<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/110 AND<br>E.1/111               | No                        |              |   |
| Presentation style    |             | R99          | 6.1, 6.2                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | C177<br>AND<br>C178                | E.1/25 AND<br>E.1/110 AND<br>E.1/111               | No                        |              |   |
| Soft keys             |             | R99          | 7.1                     | C112<br>AND<br>C177<br>AND<br>C178 | C112<br>AND<br>C177<br>AND<br>C178 | C112<br>AND<br>C177<br>AND<br>C178 | C112<br>AND<br>C177<br>AND<br>C178 | C112<br>AND<br>C177<br>AND<br>C178 | C112<br>AND<br>C177<br>AND<br>C178 | C112<br>AND<br>C177<br>AND<br>C178 | C112<br>AND<br>C177<br>AND<br>C178 | C112<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/73 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
| No Response from user |             | R99          | 8.1                     | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | C120<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/110 AND<br>E.1/111               | No                        |              |   |

| Item | Description                       | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile   | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|-----------------------------------|--------------|-------------------------|-----------------|-------------|---|---|---|---|---|---|---|---|---------------------------|--------------|---|
|      | Text attribute – left alignment   | Rel-5        | 9.1                     |                 |             | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | C153<br>AND<br>C177<br>AND<br>C178                | E.1/25 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – center alignment | Rel-5        | 9.2                     |                 |             | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | C154<br>AND<br>C177<br>AND<br>C178                | E.1/25 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – right alignment  | Rel-5        | 9.3                     |                 |             | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | C155<br>AND<br>C177<br>AND<br>C178                | E.1/25 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110 AND<br>E.1/111                | No                        |              |   |
|      | Text attribute – large font size  | Rel-5        | 9.4                     |                 |             | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – small font size  | Rel-5        | 9.5                     |                 |             | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – bold on          | Rel-5        | 9.6                     |                 |             | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – italic on        | Rel-5        | 9.7                     |                 |             | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile   | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|-----------------|-------------|---|---|---|---|---|---|---|---|---------------------------|--------------|---|
|      | Text attribute – underline on                         | Rel-5        | 9.8                     |                 |             | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – strikethrough on                     | Rel-5        | 9.9                     |                 |             | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | Text attribute – foreground and<br>background colours | Rel-5        | 9.10                    |                 |             | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | E.1/25 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 AND<br>E.1/111 | No                        |              |   |
|      | UCS2 display in Cyrillic                              | R99          | 10.1, 10.2,<br>10.3     |                 |             | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | C118<br>AND<br>C177<br>AND<br>C178                | E.1/39 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | No                        |              |   |
|      | UCS2 display in Chinese                               | R99          | 11.1                    |                 |             | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | C143<br>AND<br>C177<br>AND<br>C178                | E.1/25 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | No                        |              |   |
|      | UCS2 display in Katakana                              | R99          | 12.1, 12.2,<br>12.3     |                 |             | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | C145<br>AND<br>C177<br>AND<br>C178                | E.1/25 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | No                        |              |   |
|      | Frames  | Rel-6        | TBD                     |                 |             |   |   |   |   |   |   |   | E.1/25 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110 AND<br>E.1/111                | TBD                       |              |   |
| 13   | <b>SEND SMS 27.22.4.10</b>                            |              |                         |                 |             |   |   |   |   |   |   |   |   |                           |              |   |
|      | Void  | R99          | 1.1 - 1.8               |                 |             |   |   |   |   |   |   |   |   |                           |              |   |

| Item | Description                                | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME         | Rel-6<br>ME         | Rel-7<br>ME | Rel-8<br>ME | Rel-9<br>ME | Rel-10<br>ME | Rel-11<br>ME | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|--|--------------|-------------------------|-----------------|-------------|---------------------|---------------------|-------------|-------------|-------------|--------------|--------------|--|---|--------------|---|
|      | Send Short Message over CS,<br>UTRAN/GERAN | R99          | 1.9                     | M               | M           | M                   | M                   | M           | C183        | C183        | C183         | C183         | E.1/26 AND<br>E.1/110  | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | UCS2 SMS in Cyrillic                       | R99          | 2.1                     | C118            | C118        | C118                | C118                | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/15 AND<br>E.1/110                                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Icons – basic icon                         | R99          | 3.1, 3.2                | C108            | C108        | C108                | C108                | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/110  | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute– left alignment             | Rel-5        | 4.1                     |                 |             | C153                | C153                | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – center alignment          | Rel-5        | 4.2                     |                 |             | C154                | C154                | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – right alignment           | Rel-5        | 4.3                     |                 |             | C155                | C155                | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – large font size           | Rel-5        | 4.4                     |                 |             | C157<br>AND<br>C156 | C157<br>AND<br>C156 | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME         | Rel-6<br>ME         | Rel-7<br>ME | Rel-8<br>ME | Rel-9<br>ME | Rel-10<br>ME | Rel-11<br>ME | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|-----------------|-------------|---------------------|---------------------|-------------|-------------|-------------|--------------|--------------|--|---|--------------|---|
|      | Text attribute – small font size                      | Rel-5        | 4.5                     |                 |             | C158<br>AND<br>C156 | C158<br>AND<br>C156 | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – bold on                              | Rel-5        | 4.6                     |                 |             | C160<br>AND<br>C159 | C160<br>AND<br>C159 | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – italic on                            | Rel-5        | 4.7                     |                 |             | C161<br>AND<br>C159 | C161<br>AND<br>C159 | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – underline on                         | Rel-5        | 4.8                     |                 |             | C162<br>AND<br>C159 | C162<br>AND<br>C159 | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute– strikethrough on                      | Rel-5        | 4.9                     |                 |             | C163<br>AND<br>C159 | C163<br>AND<br>C159 | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – foreground and<br>background colours | Rel-5        | 4.10                    |                 |             | C164<br>AND<br>C165 | C164<br>AND<br>C165 | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | UCS2 display in Chinese                               | R99          | 5.1                     |                 |             | C143                | C143                | NA          | NA          | NA          | NA           | NA           | E.1/26 AND<br>E.1/15 AND<br>E.1/110                                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |

| Item      | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                    | Rel-4<br>ME                        | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile                                 | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|-----------|--|--------------|-------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---|---|--------------|---|
|           | UCS2 display in Katakana                                 | R99          | 6.1                     |                                    |                                    | C145                               | C145                               | NA                                 | NA                                 | NA                                 | NA                                 | NA                                 | E.1/26 AND<br>E.1/15 AND<br>E.1/110                 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|           | SMS-over-IP, E-UTRAN                                     | Rel-8        | 7.1                     |                                    |                                    |                                    |                                    |                                    | C196                               | C196                               | C196                               | C196                               | E.1/26 AND<br>AND E.1/110                           | E-USS<br>only   |              | TCEP001                                     |
|           | SMS-over-IP, UTRAN                                       | Rel-7        | 7.2                     |                                    |                                    |                                    |                                    | C197                               | C197                               | C197                               | C197                               | C197                               | E.1/26 AND<br>AND E.1/110                           | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|           | Send Short Message over SGs, E-<br>UTRAN                 | Rel-8        | 8.1                     |                                    |                                    |                                    |                                    |                                    | C206                               | C206                               | C206                               | C206                               | E.1/26 AND<br>AND E.1/110                           | E-USS<br>only   |              | TCEP001                                     |
|           | Frames   | Rel-6        | TBD                     |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    | E.1/26 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110 | TBD   |              | TCEP001                                     |
| <b>14</b> | <b>SEND SS 27.22.4.11</b>                                |              |                         |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |   |   |              |   |
|           | call forward unconditional, all<br>bearers, successful   | R99          | 1.1                     | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | E.1/27 AND<br>E.1/110                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|           | call forward unconditional, all<br>bearers, Return Error | R99          | 1.2                     | C174<br>AND<br>C204                | C174<br>AND<br>C204                | C174<br>AND<br>C204                | C174<br>AND<br>C204                | C174<br>AND<br>C204                | C174<br>AND<br>C183<br>AND<br>C204 | C174<br>AND<br>C183<br>AND<br>C204 | C174<br>AND<br>C183<br>AND<br>C204 | C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/110                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|           | call forward unconditional, all<br>bearers, Reject       | R99          | 1.3                     | C174<br>AND<br>C204                | C174<br>AND<br>C204                | C174<br>AND<br>C204                | C174<br>AND<br>C204                | C174<br>AND<br>C204                | C174<br>AND<br>C183<br>AND<br>C204 | C174<br>AND<br>C183<br>AND<br>C204 | C174<br>AND<br>C183<br>AND<br>C204 | C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/110                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |

| Item | Description   | Re-lease | Test sequence (s) | Rel 99 ME                          | Rel-4 ME                           | Rel-5 ME                           | Rel-6 ME                           | Rel-7 ME                           | Rel-8 ME  | Rel-9 ME  | Rel-10 ME   | Rel-11 ME   | Terminal Profile      | Network Dependency  | Support | Additional test case execution parameter |
|------|---|----------|-------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---|---|---|---|-----------------------|---|---------|--|
|      | call forward unconditional, all bearers, successful, SS request size limit  | R99      | 1.4               | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | interrogate CLIR status, successful, alpha identifier limits  | R99      | 1.5               | C175<br>AND<br>C204                | C175<br>AND<br>C204                | C175<br>AND<br>C204                | C175<br>AND<br>C204                | C175<br>AND<br>C204                | C175<br>AND<br>C183<br>AND<br>C204                | C175<br>AND<br>C183<br>AND<br>C204                | C175<br>AND<br>C183<br>AND<br>C204                | C175<br>AND<br>C183<br>AND<br>C204                | E.1/27 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | call forward unconditional, all bearers, successful, null data alpha identifier                                     | R99      | 1.6               | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C183                | C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | call forward unconditional, all bearers, successful, basic icon support   | R99      | 2.1, 2.3          | C108<br>AND<br>C174<br>AND<br>C204 | C108<br>AND<br>C174<br>AND<br>C204 | C108<br>AND<br>C174<br>AND<br>C204 | C108<br>AND<br>C174<br>AND<br>C204 | C108<br>AND<br>C174<br>AND<br>C204 | C108<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C108<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C108<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C108<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | call forward unconditional, all bearers, successful, colour icon support  | R99      | 2.2               | C171<br>AND<br>C174<br>AND<br>C204 | C171<br>AND<br>C174<br>AND<br>C204 | C171<br>AND<br>C174<br>AND<br>C204 | C171<br>AND<br>C174<br>AND<br>C204 | C171<br>AND<br>C174<br>AND<br>C204 | C171<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C171<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C171<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C171<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | call forward unconditional, all bearers, successful, basic icon non self-explanatory, no alpha identifier presented | R99      | 2.4               | C185<br>AND<br>C174<br>AND<br>C204 | C185<br>AND<br>C174<br>AND<br>C204 | C185<br>AND<br>C174<br>AND<br>C204 | C185<br>AND<br>C174<br>AND<br>C204 | C185<br>AND<br>C174<br>AND<br>C204 | C185<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C185<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C185<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C185<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |



| Item | Description                       | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                    | Rel-4<br>ME                        | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME  | Rel-9<br>ME  | Rel-10<br>ME   | Rel-11<br>ME   | Terminal<br>Profile                                 | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|-----------------------------------|--------------|-------------------------|------------------------------------|------------------------------------|---|---|---|--|--|--|--|---|---|--------------|---|
|      | UCS2 display in Cyrillic          | R99          | 3.1                     | C118<br>AND<br>C174<br>AND<br>C204 | C118<br>AND<br>C174<br>AND<br>C204 | C118<br>AND<br>C174<br>AND<br>C204                | C118<br>AND<br>C174<br>AND<br>C204                | C118<br>AND<br>C174<br>AND<br>C204                | C118<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204                | C118<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204                | C118<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204                | C118<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204                | E.1/27 AND<br>E.1/15 AND<br>E.1/110                 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – left alignment   | Rel-5        | 4.1                     |                                    |                                    | C153<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C153<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C153<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C153<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C153<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C153<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C153<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – center alignment | Rel-5        | 4.2                     |                                    |                                    | C154<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C154<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C154<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C154<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C154<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C154<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C154<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – right alignment  | Rel-5        | 4.3                     |                                    |                                    | C155<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C155<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C155<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C155<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C155<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C155<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C155<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |

| Item | Description                      | Re-lease | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME   | Rel-6 ME   | Rel-7 ME   | Rel-8 ME  | Rel-9 ME  | Rel-10 ME   | Rel-11 ME   | Terminal Profile   | Network Dependency  | Support | Additional test case execution parameter |
|------|----------------------------------|----------|-------------------|-----------|----------|--|--|--|---|---|---|---|--|---|---------|--|
|      | Text attribute – large font size | Rel-5    | 4.4               |           |          | C157<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | Text attribute – small font size | Rel-5    | 4.5               |           |          | C158<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | Text attribute – bold on         | Rel-5    | 4.6               |           |          | C160<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | Text attribute – italic on       | Rel-5    | 4.7               |           |          | C161<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |

| Item | Description  | Re-lease | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME   | Rel-6 ME   | Rel-7 ME   | Rel-8 ME  | Rel-9 ME  | Rel-10 ME   | Rel-11 ME   | Terminal Profile   | Network Dependency  | Support | Additional test case execution parameter |
|------|--|----------|-------------------|-----------|----------|--|--|--|---|---|---|---|--|---|---------|--|
|      | Text attribute – underline on                      | Rel-5    | 4.8               |           |          | C162<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | Text attribute – strikethrough on                  | Rel-5    | 4.9               |           |          | C163<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | Text attribute – foreground and background colours | Rel-5    | 4.10              |           |          | C164<br>AND<br>C165<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |
|      | UCS2 display in Chinese                            | R99      | 5.1               |           |          | C143<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204                | C143<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204                | C143<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204                | C143<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204                | C143<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204                | C143<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204                | C143<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204                | E.1/27 AND<br>E.1/15 AND<br>E.1/110                                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         | TCEP001                                  |

| Item      | Description                 | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME  | Rel-9<br>ME  | Rel-10<br>ME   | Rel-11<br>ME   | Terminal<br>Profile                 | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|-----------|-----------------------------|--------------|-------------------------|-----------------|-------------|---|---|---|--|--|--|--|-------------------------------------|---|--------------|---|
|           | UCS2 display in Katakana    | R99          | 6.1                     |                 |             | C145<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C145<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C145<br>AND<br>C166<br>AND<br>C174<br>AND<br>C204 | C145<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C145<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C145<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | C145<br>AND<br>C166<br>AND<br>C174<br>AND<br>C183<br>AND<br>C204 | E.1/27 AND<br>E.1/15 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
| <b>15</b> | <b>SEND USSD 27.22.4.12</b> |              |                         |                 |             |   |   |   |  |  |  |  |                                     |   |              |   |
|           | 7-bit data, successful      | R99          | 1.1                     | C204            | C204        | C204  | C204  | C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | E.1/28 AND<br>E.1/110               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|           | 8-bit data, successful      | R99          | 1.2                     | C204            | C204        | C204  | C204  | C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | E.1/28 AND<br>E.1/110               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|           | UCS2 data, successful       | R99          | 1.3                     | C204            | C204        | C204  | C204  | C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | E.1/28 AND<br>E.1/110               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|           | 7-bit data, unsuccessful    | R99          | 1.4                     | C204            | C204        | C204  | C204  | C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | E.1/28 AND<br>E.1/110               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|           | 7-bit data, unsuccessful    | R99          | 1.5                     | C204            | C204        | C204  | C204  | C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | C183<br>AND<br>C204  | E.1/28 AND<br>E.1/110               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |

| Item | Description  | Re-lease | Test sequence (s) | Rel 99 ME     | Rel-4 ME      | Rel-5 ME      | Rel-6 ME      | Rel-7 ME      | Rel-8 ME               | Rel-9 ME               | Rel-10 ME              | Rel-11 ME              | Terminal Profile              | Network Dependency                             | Support | Additional test case execution parameter |
|------|--|----------|-------------------|---------------|---------------|---------------|---------------|---------------|------------------------|------------------------|------------------------|------------------------|-------------------------------|--|---------|--|
|      | 256 octets, 7-bit data, successful, long alpha identifier                  | R99      | 1.6               | C204          | C204          | C204          | C204          | C204          | C183 AND C204          | C183 AND C204          | C183 AND C204          | C183 AND C204          | E.1/28 AND E.1/110            | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | 7-bit data, successful, no alpha identifier                                | R99      | 1.7               | C204          | C204          | C204          | C204          | C204          | C183 AND C204          | C183 AND C204          | C183 AND C204          | C183 AND C204          | E.1/28 AND E.1/110            | UMTS System Simulator or System Simulator only |         |  |
|      | 7-bit data, successful, null length alpha identifier                       | R99      | 1.8               | C204          | C204          | C204          | C204          | C204          | C183 AND C204          | C183 AND C204          | C183 AND C204          | C183 AND C204          | E.1/28 AND E.1/110            | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Icons – basic icon   | R99      | 2.1, 2.3          | C108 AND C204 | C108 AND C204 | C108 AND C204 | C108 AND C204 | C108 AND C204 | C108 AND C183 AND C204 | C108 AND C183 AND C204 | C108 AND C183 AND C204 | C108 AND C183 AND C204 | E.1/28 AND E.1/110            | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Icons – colour icon  | R99      | 2.2               | C186 AND C204 | C186 AND C204 | C186 AND C204 | C186 AND C204 | C186 AND C204 | C186 AND C183 AND C204 | C186 AND C183 AND C204 | C186 AND C183 AND C204 | C186 AND C183 AND C204 | E.1/28 AND E.1/110            | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | 7-bit data, basic icon non self-explanatory, no alpha identifier presented | R99      | 2.4               | C187 AND C204 | C187 AND C204 | C187 AND C204 | C187 AND C204 | C187 AND C204 | C187 AND C183 AND C204 | C187 AND C183 AND C204 | C187 AND C183 AND C204 | C187 AND C183 AND C204 | E.1/28 AND E.1/110            | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | UCS2 in Cyrillic   | R99      | 3.1               | C118 AND C204 | C118 AND C204 | C118 AND C204 | C118 AND C204 | C118 AND C204 | C118 AND C183 AND C204 | C118 AND C183 AND C204 | C118 AND C183 AND C204 | C118 AND C183 AND C204 | E.1/28 AND E.1/15 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |

| Item | Description                       | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|-----------------------------------|--------------|-------------------------|-----------------|-------------|------------------------------------|------------------------------------|------------------------------------|---|---|---|---|--|---|--------------|---|
|      | Text attribute – left alignment   | Rel-5        | 4.1                     |                 |             | C153<br>AND<br>C204                | C153<br>AND<br>C204                | C153<br>AND<br>C204                | C153<br>AND<br>C183<br>AND<br>C204                | C153<br>AND<br>C183<br>AND<br>C204                | C153<br>AND<br>C183<br>AND<br>C204                | C153<br>AND<br>C183<br>AND<br>C204                | E.1/28 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – center alignment | Rel-5        | 4.2                     |                 |             | C154<br>AND<br>C204                | C154<br>AND<br>C204                | C154<br>AND<br>C204                | C154<br>AND<br>C183<br>AND<br>C204                | C154<br>AND<br>C183<br>AND<br>C204                | C154<br>AND<br>C183<br>AND<br>C204                | C154<br>AND<br>C183<br>AND<br>C204                | E.1/28 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – right alignment  | Rel-5        | 4.3                     |                 |             | C155<br>AND<br>C204                | C155<br>AND<br>C204                | C155<br>AND<br>C204                | C155<br>AND<br>C183<br>AND<br>C204                | C155<br>AND<br>C183<br>AND<br>C204                | C155<br>AND<br>C183<br>AND<br>C204                | C155<br>AND<br>C183<br>AND<br>C204                | E.1/28 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – large font size  | Rel-5        | 4.4                     |                 |             | C157<br>AND<br>C156<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C183<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C183<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C183<br>AND<br>C204 | C157<br>AND<br>C156<br>AND<br>C183<br>AND<br>C204 | E.1/28 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – small font size  | Rel-5        | 4.5                     |                 |             | C158<br>AND<br>C156<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C183<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C183<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C183<br>AND<br>C204 | C158<br>AND<br>C156<br>AND<br>C183<br>AND<br>C204 | E.1/28 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – bold on          | Rel-5        | 4.6                     |                 |             | C160<br>AND<br>C159<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C160<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | E.1/28 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|-----------------|-------------|------------------------------------|------------------------------------|------------------------------------|---|---|---|---|--|---|--------------|---|
|      | Text attribute – italic on                            | Rel-5        | 4.7                     |                 |             | C161<br>AND<br>C159<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C161<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | E.1/28 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – underline on                         | Rel-5        | 4.8                     |                 |             | C162<br>AND<br>C159<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C162<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | E.1/28 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – strikethrough on                     | Rel-5        | 4.9                     |                 |             | C163<br>AND<br>C159<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | C163<br>AND<br>C159<br>AND<br>C183<br>AND<br>C204 | E.1/28 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – foreground and<br>background colours | Rel-5        | 4.10                    |                 |             | C164<br>AND<br>C165<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C183<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C183<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C183<br>AND<br>C204 | C164<br>AND<br>C165<br>AND<br>C183<br>AND<br>C204 | E.1/28 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | UCS2 in Chinese                                       | R99          | 5.1                     |                 |             | C143<br>AND<br>C204                | C143<br>AND<br>C204                | C143<br>AND<br>C204                | C143<br>AND<br>C183<br>AND<br>C204                | C143<br>AND<br>C183<br>AND<br>C204                | C143<br>AND<br>C183<br>AND<br>C204                | C143<br>AND<br>C183<br>AND<br>C204                | E.1/28 AND<br>E.1/15 AND<br>E.1/110                                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | UCS2 in Katakana                                      | R99          | 6.1                     |                 |             | C145<br>AND<br>C204                | C145<br>AND<br>C204                | C145<br>AND<br>C204                | C145<br>AND<br>C183<br>AND<br>C204                | C145<br>AND<br>C183<br>AND<br>C204                | C145<br>AND<br>C183<br>AND<br>C204                | C145<br>AND<br>C183<br>AND<br>C204                | E.1/28 AND<br>E.1/15 AND<br>E.1/110                                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
| 16   | <b>SET UP CALL</b> 27.22.4.13                         |              |                         |                 |             |                                    |                                    |                                    |   |   |   |   |  |   |              |   |

| Item | Description   | Re-lease | Test sequence (s) | Rel 99 ME   | Rel-4 ME  | Rel-5 ME  | Rel-6 ME  | Rel-7 ME  | Rel-8 ME   | Rel-9 ME   | Rel-10 ME  | Rel-11 ME  | Terminal Profile                     | Network Dependency  | Support | Additional test case execution parameter |
|------|---|----------|-------------------|---|---|---|---|---|--|--|--|--|--------------------------------------|---|---------|--|
|      | Call confirmed by the user and connected            | R99      | 1.1               | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | E.1/29 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | call rejected by the user                           | R99      | 1.2               | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | E.1/29 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | void  |          |                   |   |   |   |   |   |  |  |  |  | E.1/29                               |   |         |  |
|      | putting all other calls on hold, ME busy            | R99      | 1.4               | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/29 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | disconnecting all other calls, ME busy              | R99      | 1.5               | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | E.1/29 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | only if not currently busy on another call, ME busy | R99      | 1.6               | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | E.1/29 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |



| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                                   | Rel-4<br>ME                                       | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME  | Rel-9<br>ME  | Rel-10<br>ME   | Rel-11<br>ME   | Terminal<br>Profile                  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|---|---|---|---|---|--|--|--|--|--------------------------------------|---|--------------|---|
|      | putting all other calls on hold, call hold is not allowed | R99          | 1.7                     | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C170<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/29 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Capability configuration                                  | R99          | 1.8                     | C101<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C101<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C101<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C101<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C101<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C101<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C101<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C101<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C101<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/29 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | long dialling number string                               | R99          | 1.9                     | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | E.1/29 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | long first alpha identifier                               | R99          | 1.10                    | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183                | E.1/29 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Called party subaddress                                   | R99          | 1.11                    | C124<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C124<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C124<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C124<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C124<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C124<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C124<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C124<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C124<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/29 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |

| Item | Description                               | Re-lease | Test sequence (s) | Rel 99 ME   | Rel-4 ME  | Rel-5 ME  | Rel-6 ME  | Rel-7 ME  | Rel-8 ME  | Rel-9 ME  | Rel-10 ME   | Rel-11 ME   | Terminal Profile   | Network Dependency  | Support | Additional test case execution parameter |
|------|---|----------|-------------------|---|---|---|---|---|---|---|---|---|--|---|---------|--|
|      | maximum duration for the redial mechanism | R99      | 1.12              | C119<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C119<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C119<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C119<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C119<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C119<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C119<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C119<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C119<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | E.1/29 AND<br>E.1/110 AND<br>E.1/111                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | second alpha identifier                   | R99      | 2.1               | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180                | C177<br>AND<br>C178<br>AND<br>C180<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>C183                | C177<br>AND<br>C178<br>AND<br>C180<br>C183                | E.1/29 AND<br>E.1/63 AND<br>E.1/110 AND<br>E.1/111                 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | Icons – basic icon                        | R99      | 3.1,3.2, 3.4      | C108<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C108<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C108<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C108<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C108<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C108<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C108<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C108<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C108<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | E.1/29 AND<br>E.1/110 AND<br>E.1/111                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | Icons – colour icon                       | R99      | 3.3               | C171<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C171<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C171<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C171<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C171<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C171<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C171<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C171<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C171<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | E.1/29 AND<br>E.1/110 AND<br>E.1/111                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | Text attribute – left alignment           | Rel-5    | 4.1               |   |   | C153<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C153<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C153<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C153<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C153<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C153<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C153<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | E.1/29 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |

| Item | Description                       | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME  | Rel-6<br>ME  | Rel-7<br>ME  | Rel-8<br>ME  | Rel-9<br>ME  | Rel-10<br>ME   | Rel-11<br>ME   | Terminal<br>Profile   | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|-----------------------------------|--------------|-------------------------|-----------------|-------------|--|--|--|--|--|--|--|---|---|--------------|---|
|      | Text attribute – center alignment | Rel-5        | 4.2                     |                 |             | C154<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180                | C154<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180                | C154<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180                | C154<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183                | C154<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183                | C154<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183                | C154<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183                | E.1/29 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110 AND<br>E.1/111                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Text attribute – right alignment  | Rel-5        | 4.3                     |                 |             | C155<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180                | C155<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180                | C155<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180                | C155<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183                | C155<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183                | C155<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183                | C155<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183                | E.1/29 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110 AND<br>E.1/111                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Text attribute – large font size  | Rel-5        | 4.4                     |                 |             | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | E.1/29 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Text attribute – small font size  | Rel-5        | 4.5                     |                 |             | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>C183 | E.1/29 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |

| Item | Description                       | Release | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME   | Rel-6 ME   | Rel-7 ME   | Rel-8 ME  | Rel-9 ME  | Rel-10 ME   | Rel-11 ME   | Terminal Profile  | Network Dependency  | Support | Additional test case execution parameter |
|------|-----------------------------------|---------|-------------------|-----------|----------|--|--|--|---|---|---|---|---|---|---------|--|
|      | Text attribute – bold on          | Rel-5   | 4.6               |           |          | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/29 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | Text attribute – italic on        | Rel-5   | 4.7               |           |          | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/29 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | Text attribute – underline on     | Rel-5   | 4.8               |           |          | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/29 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |
|      | Text attribute – strikethrough on | Rel-5   | 4.9               |           |          | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/29 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |         |  |

| Item | Description  | Re-lease | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME                                 | Rel-6 ME                                 | Rel-7 ME                                 | Rel-8 ME  | Rel-9 ME  | Rel-10 ME   | Rel-11 ME   | Terminal Profile   | Network Dependency                             | Support | Additional test case execution parameter |
|------|--|----------|-------------------|-----------|----------|--|--|--|---|---|---|---|--|--|---------|--|
|      | Text attribute – foreground and background colours | Rel-5    | 4.10              |           |          | C164 AND C165 AND C177 AND C178 AND C180 | C164 AND C165 AND C177 AND C178 AND C180 | C164 AND C165 AND C177 AND C178 AND C180 | C164 AND C165 AND C177 AND C178 AND C180 AND C183 | C164 AND C165 AND C177 AND C178 AND C180 AND C183 | C164 AND C165 AND C177 AND C178 AND C180 AND C183 | C164 AND C165 AND C177 AND C178 AND C180 AND C183 | E.1/29 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111 | UMTS System Simulator or System Simulator only |         |  |
|      | UCS2 Display in Cyrillic                           | R99      | 5.1, 5.2.         |           |          | C118 AND C177 AND C178 AND C180          | C118 AND C177 AND C178 AND C180          | C118 AND C177 AND C178 AND C180          | C118 AND C177 AND C178 AND C180 AND C183          | C118 AND C177 AND C178 AND C180 AND C183          | C118 AND C177 AND C178 AND C180 AND C183          | C118 AND C177 AND C178 AND C180 AND C183          | E.1/29 AND E.1/15 AND E.1/110 AND E.1/111                          | UMTS System Simulator or System Simulator only |         |  |
|      | UCS2 display in Chinese                            | R99      | 6.1, 6.2          |           |          | C143 AND C177 AND C178 AND C180          | C143 AND C177 AND C178 AND C180          | C143 AND C177 AND C178 AND C180          | C143 AND C177 AND C178 AND C180 AND C183          | C143 AND C177 AND C178 AND C180 AND C183          | C143 AND C177 AND C178 AND C180 AND C183          | C143 AND C177 AND C178 AND C180 AND C183          | E.1/29 AND E.1/15 AND E.1/110 AND E.1/111                          | UMTS System Simulator or System Simulator only |         |  |
|      | UCS2 display in Katakana                           | R99      | 7.1, 7.2          |           |          | C145 AND C177 AND C178 AND C180          | C145 AND C177 AND C178 AND C180          | C145 AND C177 AND C178 AND C180          | C145 AND C177 AND C178 AND C180 AND C183          | C145 AND C177 AND C178 AND C180 AND C183          | C145 AND C177 AND C178 AND C180 AND C183          | C145 AND C177 AND C178 AND C180 AND C183          | E.1/29 AND E.1/15 AND E.1/110 AND E.1/111                          | UMTS System Simulator or System Simulator only |         |  |
|      | Frames   | Rel-6    | TBD               |           |          |  |  |  |   |   |   |   | E.1/29 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111             | TBD  |         |  |
| 17   | <b>POLLING OFF 27.22.4.14</b>                      |          |                   |           |          |  |  |  |   |   |   |   |  |  |         |  |

| Item      | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME | Rel-6<br>ME | Rel-7<br>ME | Rel-8<br>ME         | Rel-9<br>ME         | Rel-10<br>ME        | Rel-11<br>ME        | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|-----------|--|--------------|-------------------------|-----------------|-------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|---------------------|----------------------|---|--------------|---|
|           | POLLING OFF  | R99          | 1.1                     | C180            | C180        | C180        | C180        | C180        | C180<br>AND<br>C183 | C180<br>AND<br>C183 | C180<br>AND<br>C183 | C180<br>AND<br>C183 | E.1/23               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|           | POLLING OFF, E-UTRAN                                 | Rel-8        | 1.2                     |                 |             |             |             |             | C190                | C190                | C190                | C190                | E.1/23               | E-USS<br>only   |              |   |
| <b>18</b> | <b>PROVIDE LOCAL INFORMATION<br/>27.22.4.15</b>      |              |                         |                 |             |             |             |             |                     |                     |                     |                     |                      |   |              |   |
|           | location information                                 | R99          | 1.1                     | M               | M           | M           | M           | M           | M                   | M                   | M                   | M                   | E.1/31               | Yes   |              | AER003                                      |
|           | IMEI   | R99          | 1.2                     | M               | M           | M           | M           | M           | M                   | M                   | M                   | M                   | E.1/31               | No  |              |   |
|           | network measurement results and<br>BCCH channel list | R99          | 1.3                     | C167            | C167        | C167        | C167        | C167        | C167                | C167                | C167                | C167                | E.1/32 AND<br>E.1/67 | System<br>Simulator<br>only                                   |              |   |
|           | Date, time and time zone                             | R99          | 1.4                     | M               | M           | M           | M           | M           | M                   | M                   | M                   | M                   | E.1/59               | No  |              |   |
|           | language setting                                     | R99          | 1.5                     | M               | M           | M           | M           | M           | M                   | M                   | M                   | M                   | E.1/68               | No  |              |   |
|           | Timing advance                                       | R99          | 1.6                     | C167            | C167        | C167        | C167        | C167        | C167                | C167                | C167                | C167                | E.1/69               | System<br>Simulator<br>only                                   |              |   |
|           | Access Technology                                    | Rel-4        | 1.7                     |                 |             |             | M           | M           | C184                | C184                | C184                | C184                | E.1/72               | UMTS<br>System<br>Simulator<br>only                           |              | AER004                                      |
|           | Void   |              |                         |                 |             |             |             |             |                     |                     |                     |                     |                      |   |              |   |
|           | IMEISV   | Rel-6        | 1.9                     |                 |             |             | M           | M           | M                   | M                   | M                   | M                   | E.1/143              | No  |              |   |
|           | Network Search Mode                                  | Rel-6        | 1.10                    |                 |             |             |             |             |                     | M                   | M                   | M                   | E.1/144              | No  |              |   |
|           | Charge State of the Battery                          | Rel-6        | 1.11                    |                 |             |             | C139        | C139        | C139                | C139                | C139                | C139                | E.1/170              | No  |              |   |
|           | Intra-frequency UTRAN<br>measurements                | Rel-6        | 1.12                    |                 |             |             | M           | M           | C184                | C184                | C184                | C184                | E.1/183              | UMTS<br>System<br>Simulator<br>only                           |              |   |
|           | Inter-frequency UTRAN<br>measurements                | Rel-6        | 1.13                    |                 |             |             | M           | M           | C184                | C184                | C184                | C184                | E.1/183              | UMTS<br>System<br>Simulator<br>only                           |              |   |
|           | Access Technology, E-UTRAN                           | Rel-8        | 1.14                    |                 |             |             |             |             | C190                | C190                | C190                | C190                | E.1/72               | E-USS<br>only   |              |   |
|           | E-UTRAN Intra-Frequency<br>Measurements              | Rel-8        | 1.15                    |                 |             |             |             |             | C190                | C190                | C190                | C190                | E.1/183              | E-USS<br>only   |              |   |
|           | E-UTRAN Intrer-Frequency<br>Measurements             | Rel-8        | 1.16                    |                 |             |             |             |             | C190                | C190                | C190                | C190                | E.1/183              | E-USS<br>only   |              |   |

| Item      | Description   | Re-lease | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME | Rel-6 ME | Rel-7 ME | Rel-8 ME      | Rel-9 ME      | Rel-10 ME     | Rel-11 ME     | Terminal Profile             | Network Dependency                             | Support | Additional test case execution parameter |
|-----------|---|----------|-------------------|-----------|----------|----------|----------|----------|---------------|---------------|---------------|---------------|------------------------------|--|---------|--|
|           | E-UTRAN Local Info (MCC, MNC, TAC & E-UTRAN Cell ID)  | Rel-8    | 1.17              |           |          |          |          |          | C190          | C190          | C190          | C190          | E.1/31 AND E.1/135           | E-USS only                                     |         |  |
|           | Discovery of surrounding CSG cells  | Rel-9    | 1.18              |           |          |          |          |          |               | C195          | C195          | C195          | E.1/242                      | E-USS only                                     |         |  |
|           | Location Information for multiple Access Technologies   | Rel-8    | 1.19              |           |          |          |          |          | TBD           | TBD           | TBD           | TBD           | TBD                          | TBD  |         |  |
|           | NMR for multiple Access Technologies  | Rel-8    | 1.20              |           |          |          |          |          | TBD           | TBD           | TBD           | TBD           | TBD                          | TBD  |         |  |
|           | Current access technologies, multiple Access Technologies                                       | Rel-8    | 1.21              |           |          |          |          |          | TBD           | TBD           | TBD           | TBD           | TBD                          | TBD  |         |  |
| <b>19</b> | <b>SET UP EVENT LIST<br/>27.22.4.16</b>   |          |                   |           |          |          |          |          |               |               |               |               |                              |  |         |  |
|           | Set up call connected event   | R99      | 1.1               | C180      | C180     | C180     | C180     | C180     | C180 AND C183 | C180 AND C183 | C180 AND C183 | C180 AND C183 | E.1/33 AND E.1/35            | UMTS System Simulator or System Simulator only |         |  |
|           | Replace by new event list   | R99      | 1.2               | C180      | C180     | C180     | C180     | C180     | C180 AND C183 | C180 AND C183 | C180 AND C183 | C180 AND C183 | E.1/33 AND E.1/35 AND E.1/36 | UMTS System Simulator or System Simulator only |         |  |
|           | Remove event  | R99      | 1.3               | C180      | C180     | C180     | C180     | C180     | C180 AND C183 | C180 AND C183 | C180 AND C183 | C180 AND C183 | E.1/33 AND E.1/35            | UMTS System Simulator or System Simulator only |         |  |
|           | Remove Event on ME Power Cycle  | R99      | 1.4               | C180      | C180     | C180     | C180     | C180     | C180 AND C183 | C180 AND C183 | C180 AND C183 | C180 AND C183 | E.1/33 AND E.1/35            | UMTS System Simulator or System Simulator only |         |  |
| <b>20</b> | <b>PERFORM CARD APDU<br/>27.22.4.17</b>   |          |                   |           |          |          |          |          |               |               |               |               |                              |  |         |  |
|           | Additional card inserted, Select MF and Get Response  | R99      | 1.1               | C109      | C109     | C109     | C109     | C109     | C109          | C109          | C109          | C109          | E.1/51                       | No   |         |  |
|           | Additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN | R99      | 1.2               | C109      | C109     | C109     | C109     | C109     | C109          | C109          | C109          | C109          | E.1/51                       | No   |         |  |

| Item      | Description  | Re-lease | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME | Rel-6 ME | Rel-7 ME | Rel-8 ME | Rel-9 ME | Rel-10 ME | Rel-11 ME | Terminal Profile  | Network Dependency | Support | Additional test case execution parameter |
|-----------|--|----------|-------------------|-----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-------------------|--------------------|---------|--|
|           | Additional card inserted, card powered off   | R99      | 1.3               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/51            | No                 |         |  |
|           | No card inserted, card powered off   | R99      | 1.4               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/51            | No                 |         |  |
|           | Invalid card reader identifier   | R99      | 1.5               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/51            | No                 |         |  |
|           | Detachable reader  | R99      | 2.1               | C116      | C116     | C116     | C116     | C116     | C116     | C116     | C116      | C116      | E.1/51            | No                 |         |  |
| <b>21</b> | <b>POWER OFF CARD 27.22.4.18</b>   |          |                   |           |          |          |          |          |          |          |           |           |                   |                    |         |  |
|           | Additional card inserted   | R99      | 1.1               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/50            | No                 |         |  |
|           | No card inserted   | R99      | 1.2               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/50            | No                 |         |  |
|           | Detachable reader  | R99      | 2.1               | C116      | C116     | C116     | C116     | C116     | C116     | C116     | C116      | C116      | E.1/50            | No                 |         |  |
| <b>22</b> | <b>POWER ON CARD 27.22.4.19</b>  |          |                   |           |          |          |          |          |          |          |           |           |                   |                    |         |  |
|           | Additional card inserted   | R99      | 1.1               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/49            | No                 |         |  |
|           | No ATR   | R99      | 1.2               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/49            | No                 |         |  |
|           | No card inserted   | R99      | 1.3               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/49            | No                 |         |  |
|           | Detachable reader  | R99      | 2.1               | C116      | C116     | C116     | C116     | C116     | C116     | C116     | C116      | C116      | E.1/49            | No                 |         |  |
| <b>23</b> | <b>GET READER STATUS 27.22.4.20</b>  |          |                   |           |          |          |          |          |          |          |           |           |                   |                    |         |  |
|           | Additional card inserted, card powered   | R99      | 1.1               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/52            | No                 |         |  |
|           | Additional card inserted, card not powered   | R99      | 1.2               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/52            | No                 |         |  |
|           | Additional card inserted, card not present   | R99      | 1.3               | C109      | C109     | C109     | C109     | C109     | C109     | C109     | C109      | C109      | E.1/52            | No                 |         |  |
|           | Detachable reader  | R99      | 2.1               | C116      | C116     | C116     | C116     | C116     | C116     | C116     | C116      | C116      | E.1/52            | No                 |         |  |
| <b>24</b> | <b>TIMER MANAGEMENT 27.22.4.21.1</b>   |          |                   |           |          |          |          |          |          |          |           |           |                   |                    |         |  |
|           | Start timer 1 several times, get the current value of the timer and deactivate the timer successfully              | R99      | 1.1               | M         | M        | M        | M        | M        | M        | M        | M         | M         | E.1/57 AND E.1/58 | No                 |         |  |
|           | Start timer 2 several times, get the current value of the timer and deactivate the timer successfully              | R99      | 1.2               | M         | M        | M        | M        | M        | M        | M        | M         | M         | E.1/57 AND E.1/58 | No                 |         |  |
|           | Start timer 8 several times, get the current value of the timer and deactivate the timer successfully              | R99      | 1.3               | M         | M        | M        | M        | M        | M        | M        | M         | M         | E.1/57 AND E.1/58 | No                 |         |  |
|           | Try to get the current value of a timer which is not started: action in contradiction with the current timer state | R99      | 1.4               | M         | M        | M        | M        | M        | M        | M        | M         | M         | E.1/57 AND E.1/58 | No                 |         |  |
|           | Try to deactivate a timer which is not started: action in contradiction with the current timer state               | R99      | 1.5               | M         | M        | M        | M        | M        | M        | M        | M         | M         | E.1/57 AND E.1/58 | No                 |         |  |
|           | Start 8 timers successfully  | R99      | 1.6               | M         | M        | M        | M        | M        | M        | M        | M         | M         | E.1/57 AND E.1/58 | No                 |         |  |



| Item | Description                                       | Re-lease | Test sequence (s) | Rel 99 ME                          | Rel-4 ME                           | Rel-5 ME                           | Rel-6 ME                           | Rel-7 ME                           | Rel-8 ME                           | Rel-9 ME                           | Rel-10 ME                          | Rel-11 ME                          | Terminal Profile                                  | Network Dependency  | Support   | Additional test case execution parameter |  |
|------|---|----------|-------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---|---|---|--|--|
| 25   | <b>ENVELOPE TIMER EXPIRATION<br/>27.22.4.21.2</b> |          |                   |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |   |   |   |  |  |
|      | Pending proactive UICC command                    | R99      | 2.1               | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | E.1/6 AND<br>E.1/57                               | No  |   |  |  |
|      | USIM application toolkit busy                     | R99      | 2.2               | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | M                                  | E.1/6 AND<br>E.1/57 AND<br>E.1/20                 | No  |   |  |  |
| 26   | <b>SET UP IDLE MODE TEXT<br/>27.22.4.22</b>       |          |                   |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |   |   |   |  |  |
|      | Display idle mode text                            | R99      | 1.1               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/110 | Yes   |   |  |  |
|      | Replace idle mode text                            | R99      | 1.2               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/110 | Yes   |   |  |  |
|      | Remove idle mode test                             | R99      | 1.3               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/110 | Yes   |   |  |  |
|      | Competing information on ME display               | R99      | 1.4               | C177<br>AND<br>C179<br>AND<br>C180 | C177<br>AND<br>C179<br>AND<br>C180 | C177<br>AND<br>C179<br>AND<br>C180 | C177<br>AND<br>C179<br>AND<br>C180 | C177<br>AND<br>C179<br>AND<br>C180 | C177<br>AND<br>C179<br>AND<br>C180 | C177<br>AND<br>C179<br>AND<br>C180 | C177<br>AND<br>C179<br>AND<br>C180 | C177<br>AND<br>C179<br>AND<br>C180 | C177<br>AND<br>C179<br>AND<br>C180                | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/110               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |  |  |
|      | ME powered cycled                                 | R99      | 1.5               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177  | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/110               | Yes   |  |  |
|      | Refresh with USIM initialization                  | R99      | 1.6               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177  | E.1/61 AND<br>E.1/24 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/110 | Yes   |  |  |
|      | Large text string                                 | R99      | 1.7               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177                               | C177  | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/110               | Yes   |  |  |
|      | Icons – basic icon                                | R99      | 2.1, 2.2          | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                | C108<br>AND<br>C177                               | E.1/61 AND<br>E.1/39 AND<br>E.1/110                             | Yes   |  |  |

| Item | Description                                     | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME     | Rel-4<br>ME         | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile  | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|---------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|---------------------------|--------------|---|
|      | Icons – colour icon                             | R99          | 2.3                     | C171<br>AND<br>C177 | C171<br>AND<br>C177 | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | C171<br>AND<br>C177                | E.1/61 AND<br>E.1/39 AND<br>E.1/110  | Yes                       |              |   |
|      | Icon is not self-explanatory, empty text string | R99          | 2.4                     | C188<br>AND<br>C177 | C188<br>AND<br>C177 | C188<br>AND<br>C177                | C188<br>AND<br>C177                | C188<br>AND<br>C177                | C188<br>AND<br>C177                | C188<br>AND<br>C177                | C188<br>AND<br>C177                | C188<br>AND<br>C177                | E.1/61 AND<br>E.1/39 AND<br>E.1/110  | Yes                       |              |   |
|      | UCS2 display in Cyrillic                        | R99          | 3.1                     | C118<br>AND<br>C177 | C118<br>AND<br>C177 | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | C118<br>AND<br>C177                | E.1/61 AND<br>E.1/15 AND<br>E.1/39 AND<br>E.1/110  | Yes                       |              |   |
|      | Text attribute – left alignment                 | Rel-5        | 4.1                     |                     |                     | C153<br>AND<br>C177                | C153<br>AND<br>C177                | C153<br>AND<br>C177                | C153<br>AND<br>C177                | C153<br>AND<br>C177                | C153<br>AND<br>C177                | C153<br>AND<br>C177                | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110                | Yes                       |              |   |
|      | Text attribute – center alignment               | Rel-5        | 4.2                     |                     |                     | C154<br>AND<br>C177                | C154<br>AND<br>C177                | C154<br>AND<br>C177                | C154<br>AND<br>C177                | C154<br>AND<br>C177                | C154<br>AND<br>C177                | C154<br>AND<br>C177                | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110                | Yes                       |              |   |
|      | Text attribute – right alignment                | Rel-5        | 4.3                     |                     |                     | C155<br>AND<br>C177                | C155<br>AND<br>C177                | C155<br>AND<br>C177                | C155<br>AND<br>C177                | C155<br>AND<br>C177                | C155<br>AND<br>C177                | C155<br>AND<br>C177                | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110                | Yes                       |              |   |
|      | Text attribute – large font size                | Rel-5        | 4.4                     |                     |                     | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | C157<br>AND<br>C156<br>AND<br>C177 | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 | Yes                       |              |   |
|      | Text attribute – small font size                | Rel-5        | 4.5                     |                     |                     | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | C158<br>AND<br>C156<br>AND<br>C177 | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 | Yes                       |              |   |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile  | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|-----------------|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|---------------------------|--------------|---|
|      | Text attribute – bold on                              | Rel-5        | 4.6                     |                 |             | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | C160<br>AND<br>C159<br>AND<br>C177 | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 | Yes                       |              |   |
|      | Text attribute – italic on                            | Rel-5        | 4.7                     |                 |             | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | C161<br>AND<br>C159<br>AND<br>C177 | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 | Yes                       |              |   |
|      | Text attribute – underline on                         | Rel-5        | 4.8                     |                 |             | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | C162<br>AND<br>C159<br>AND<br>C177 | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 | Yes                       |              |   |
|      | Text attribute – strikethrough on                     | Rel-5        | 4.9                     |                 |             | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | C163<br>AND<br>C159<br>AND<br>C177 | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 | Yes                       |              |   |
|      | Text attribute – foreground and<br>background colours | Rel-5        | 4.10                    |                 |             | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | C164<br>AND<br>C165<br>AND<br>C177 | E.1/61 AND<br>E.1/33 AND<br>E.1/39 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 | Yes                       |              |   |
|      | UCS2 display in Chinese                               | R99          | 5.1                     |                 |             | C143<br>AND<br>C177                | C143<br>AND<br>C177                | C143<br>AND<br>C177                | C143<br>AND<br>C177                | C143<br>AND<br>C177                | C143<br>AND<br>C177                | C143<br>AND<br>C177                | E.1/61 AND<br>E.1/15 AND<br>E.1/39 AND<br>E.1/110  | Yes                       |              |   |
|      | UCS2 display in Katakana                              | R99          | 6.1                     |                 |             | C145<br>AND<br>C177                | C145<br>AND<br>C177                | C145<br>AND<br>C177                | C145<br>AND<br>C177                | C145<br>AND<br>C177                | C145<br>AND<br>C177                | C145<br>AND<br>C177                | E.1/61 AND<br>E.1/15 AND<br>E.1/39 AND<br>E.1/110  | Yes                       |              |   |

| Item      | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME     | Rel-4<br>ME         | Rel-5<br>ME                                       | Rel-6<br>ME   | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile  | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|-----------|---|--------------|-------------------------|---------------------|---------------------|---|---|---|---|---|---|---|--|---------------------------|--------------|---|
|           | Frames  | Rel-6        | TBD                     |                     |                     |   |   |   |   |   |   |   | E.1/61 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110                | TBD                       |              |   |
| <b>27</b> | <b>RUN AT COMMAND 27.22.4.23</b>                                  |              |                         |                     |                     |   |   |   |   |   |   |   |  |                           |              |   |
|           | No alpha Identifier   | R99          | 1.1                     | C110                | C110                | C110  | C110  | C110  | C110  | C110  | C110  | C110  | E.1/62   | No                        |              |   |
|           | null data alpha identifier presented                              | R99          | 1.2                     | C110                | C110                | C110  | C110  | C110  | C110  | C110  | C110  | C110  | E.1/62   | No                        |              |   |
|           | alpha identifier presented  | R99          | 1.3                     | C110<br>AND<br>C177 | C110<br>AND<br>C177 | C110<br>AND<br>C177                               | C110<br>AND<br>C177                                     | C110<br>AND<br>C177                               | C110<br>AND<br>C177                               | C110<br>AND<br>C177                               | C110<br>AND<br>C177                               | C110<br>AND<br>C177                               | E.1/62 AND<br>E.1/110  | No                        |              |   |
|           | Icons – basic icon  | R99          | 2.1, 2.3                | C114<br>AND<br>C177 | C114<br>AND<br>C177 | C114<br>AND<br>C177                               | C114<br>AND<br>C177                                     | C114<br>AND<br>C177                               | C114<br>AND<br>C177                               | C114<br>AND<br>C177                               | C114<br>AND<br>C177                               | C114<br>AND<br>C177                               | E.1/62 AND<br>E.1/110  | No                        |              |   |
|           | Icons – colour icon   | R99          | 2.2, 2.4,               | C173<br>AND<br>C177 | C173<br>AND<br>C177 | C173<br>AND<br>C177                               | C173<br>AND<br>C177                                     | C173<br>AND<br>C177                               | C173<br>AND<br>C177                               | C173<br>AND<br>C177                               | C173<br>AND<br>C177                               | C173<br>AND<br>C177                               | E.1/62 AND<br>E.1/110  | No                        |              |   |
|           | basic icon non self-explanatory, no<br>alpha identifier presented | R99          | 2.5                     | C189<br>AND<br>C177 | C189<br>AND<br>C177 | C189<br>AND<br>C177                               | C189<br>AND<br>C177                                     | C189<br>AND<br>C177                               | C189<br>AND<br>C177                               | C189<br>AND<br>C177                               | C189<br>AND<br>C177                               | C189<br>AND<br>C177                               | E.1/62 AND<br>E.1/110  | No                        |              |   |
|           | Text attribute – left alignment                                   | Rel-5        | 3.1                     |                     |                     | C110<br>AND<br>C153<br>AND<br>C177                | C110<br>AND<br>C153<br>AND<br>C177                      | C110<br>AND<br>C153<br>AND<br>C177                | C110<br>AND<br>C153<br>AND<br>C177                | C110<br>AND<br>C153<br>AND<br>C177                | C110<br>AND<br>C153<br>AND<br>C177                | C110<br>AND<br>C153<br>AND<br>C177                | E.1/62 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110                | No                        |              |   |
|           | Text attribute – center alignment                                 | Rel-5        | 3.2                     |                     |                     | C110<br>AND<br>C154<br>AND<br>C177                | C110<br>AND<br>154<br>AND<br>C177                       | C110<br>AND<br>C154<br>AND<br>C177                | C110<br>AND<br>C154<br>AND<br>C177                | C110<br>AND<br>C154<br>AND<br>C177                | C110<br>AND<br>C154<br>AND<br>C177                | C110<br>AND<br>C154<br>AND<br>C177                | E.1/62 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110                | No                        |              |   |
|           | Text attribute – right alignment                                  | Rel-5        | 3.3                     |                     |                     | C110<br>AND<br>C155<br>AND<br>C177                | C110<br>AND<br>155<br>AND<br>C177                       | C110<br>AND<br>C155<br>AND<br>C177                | C110<br>AND<br>C155<br>AND<br>C177                | C110<br>AND<br>C155<br>AND<br>C177                | C110<br>AND<br>C155<br>AND<br>C177                | C110<br>AND<br>C155<br>AND<br>C177                | E.1/62 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110                | No                        |              |   |
|           | Text attribute – large font size                                  | Rel-5        | 3.4                     |                     |                     | C110<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177 | C110<br>AND<br>157A<br>AND<br>ND<br>C156<br>AND<br>C177 | C110<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177 | C110<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177 | C110<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177 | C110<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177 | C110<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177 | E.1/62 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 | No                        |              |   |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile  | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|-----------------|-------------|---|---|---|---|---|---|---|--|---------------------------|--------------|---|
|      | Text attribute – small font size                      | Rel-5        | 3.5                     |                 |             | C110<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177 | C110<br>ANDC<br>158A<br>ND<br>C156<br>AND<br>C177 | C110<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177 | C110<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177 | C110<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177 | C110<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177 | C110<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177 | E.1/62 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 | No                        |              |   |
|      | Text attribute – bold on                              | Rel-5        | 3.6                     |                 |             | C110<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177 | C110<br>ANDC<br>160<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177 | E.1/62 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 | No                        |              |   |
|      | Text attribute – italic on                            | Rel-5        | 3.7                     |                 |             | C110<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177 | C110<br>ANDC<br>161<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177 | E.1/62 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 | No                        |              |   |
|      | Text attribute – underline on                         | Rel-5        | 3.8                     |                 |             | C110<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177 | C110<br>ANDC<br>162<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177 | E.1/62 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 | No                        |              |   |
|      | Text attribute – strikethrough on                     | Rel-5        | 3.9                     |                 |             | C110<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177 | C110<br>ANDC<br>163<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177 | C110<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177 | E.1/62 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 | No                        |              |   |
|      | Text attribute – foreground and<br>background colours | Rel-5        | 3.10                    |                 |             | C110<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177 | C110<br>ANDC<br>164<br>AND<br>C165<br>AND<br>C177 | C110<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177 | C110<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177 | C110<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177 | C110<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177 | C110<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177 | E.1/62 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 | No                        |              |   |

| Item      | Description                    | Re-lease | Test sequence (s) | Rel 99 ME     | Rel-4 ME      | Rel-5 ME      | Rel-6 ME      | Rel-7 ME      | Rel-8 ME               | Rel-9 ME               | Rel-10 ME              | Rel-11 ME              | Terminal Profile                           | Network Dependency                             | Support | Additional test case execution parameter |
|-----------|--------------------------------|----------|-------------------|---------------|---------------|---------------|---------------|---------------|------------------------|------------------------|------------------------|------------------------|--|--|---------|--|
|           | UCS2 Display in Cyrillic       | R99      | 4.1               |               |               | C149 AND C177 | C149 AND C177 | C149 AND C177 | C149 AND C177          | C149 AND C177          | C149 AND C177          | C149 AND C177          | E.1/62 AND E.1/15 AND E.1/110              | No   |         |  |
|           | UCS2 display in Chinese        | R99      | 5.1               |               |               | C150 AND C177 | C150 AND C177 | C150 AND C177 | C150 AND C177          | C150 AND C177          | C150 AND C177          | C150 AND C177          | E.1/62 AND E.1/15 AND E.1/110              | No   |         |  |
|           | UCS2 display in Katakana       | R99      | 6.1               |               |               | C151 AND C177 | C151 AND C177 | C151 AND C177 | C151 AND C177          | C151 AND C177          | C151 AND C177          | C151 AND C177          | E.1/62 AND E.1/15 AND E.1/110              | No   |         |  |
|           | Frames                         | Rel-6    | TBD               |               |               |               |               |               |                        |                        |                        |                        | E.1/62 AND E.1/177 AND E.1/178 AND E.1/110 | TBD  |         |  |
| <b>28</b> | <b>SEND DTMF 27.22.4.24</b>    |          |                   |               |               |               |               |               |                        |                        |                        |                        |  |  |         |  |
|           | Normal                         | R99      | 1.1               | C180          | C180          | C180          | C180          | C180          | C180 AND C183          | C180 AND C183          | C180 AND C183          | C180 AND C183          | E.1/66                                     | UMTS System Simulator or System Simulator only |         |  |
|           | alpha identifier               | R99      | 1.2, 1.3          | C180          | C180          | C180          | C180          | C180          | C180 AND C183          | C180 AND C183          | C180 AND C183          | C180 AND C183          | E.1/66 AND E.1/110                         | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|           | Mobile is not in a speech call | R99      | 1.4               | C180          | C180          | C180          | C180          | C180          | C180 AND C183          | C180 AND C183          | C180 AND C183          | C180 AND C183          | E.1/66                                     | UMTS System Simulator or System Simulator only |         |  |
|           | Icons – basic icon             | R99      | 2.1, 2.3          | C108 AND C180 | C108 AND C180 | C108 AND C180 | C108 AND C180 | C108 AND C180 | C108 AND C180 AND C183 | C108 AND C180 AND C183 | C108 AND C180 AND C183 | C108 AND C180 AND C183 | E.1/66 AND E.1/110                         | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|           | Icons – colour icon            | R99      | 2.2               | C171 AND C180 | C171 AND C180 | C171 AND C180 | C171 AND C180 | C171 AND C180 | C171 AND C180 AND C183 | C171 AND C180 AND C183 | C171 AND C180 AND C183 | C171 AND C180 AND C183 | E.1/66 AND E.1/110                         | UMTS System Simulator or System Simulator only |         | TCEP001                                  |

| Item | Description                       | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME     | Rel-4<br>ME         | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|-----------------------------------|--------------|-------------------------|---------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|---|---|---|---|--|---|--------------|---|
|      | UCS2 display in Cyrillic          | R99          | 3.1                     | C118<br>AND<br>C180 | C118<br>AND<br>C180 | C118<br>AND<br>C180                | C118<br>AND<br>C180                | C118<br>AND<br>C180                | C118<br>AND<br>C180<br>AND<br>C183                | C118<br>AND<br>C180<br>AND<br>C183                | C118<br>AND<br>C180<br>AND<br>C183                | C118<br>AND<br>C180<br>AND<br>C183                | E.1/66 AND<br>E.1/15 AND<br>E.1/110                                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – left alignment   | Rel-5        | 4.1                     |                     |                     | C153<br>AND<br>C180                | C153<br>AND<br>C180                | C153<br>AND<br>C180                | C153<br>AND<br>C180<br>AND<br>C183                | C153<br>AND<br>C180<br>AND<br>C183                | C153<br>AND<br>C180<br>AND<br>C183                | C153<br>AND<br>C180<br>AND<br>C183                | E.1/66 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – center alignment | Rel-5        | 4.2                     |                     |                     | C154<br>AND<br>C180                | C154<br>AND<br>C180                | C154<br>AND<br>C180                | C154<br>AND<br>C180<br>AND<br>C183                | C154<br>AND<br>C180<br>AND<br>C183                | C154<br>AND<br>C180<br>AND<br>C183                | C154<br>AND<br>C180<br>AND<br>C183                | E.1/66 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – right alignment  | Rel-5        | 4.3                     |                     |                     | C155<br>AND<br>C180                | C155<br>AND<br>C180                | C155<br>AND<br>C180                | C155<br>AND<br>C180<br>AND<br>C183                | C155<br>AND<br>C180<br>AND<br>C183                | C155<br>AND<br>C180<br>AND<br>C183                | C155<br>AND<br>C180<br>AND<br>C183                | E.1/66 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – large font size  | Rel-5        | 4.4                     |                     |                     | C157<br>AND<br>C156<br>AND<br>C180 | C157<br>AND<br>C156<br>AND<br>C180 | C157<br>AND<br>C156<br>AND<br>C180 | C157<br>AND<br>C156<br>AND<br>C180<br>AND<br>C183 | C157<br>AND<br>C156<br>AND<br>C180<br>AND<br>C183 | C157<br>AND<br>C156<br>AND<br>C180<br>AND<br>C183 | C157<br>AND<br>C156<br>AND<br>C180<br>AND<br>C183 | E.1/66 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – small font size  | Rel-5        | 4.5                     |                     |                     | C158<br>AND<br>C156<br>AND<br>C180 | C158<br>AND<br>C156<br>AND<br>C180 | C158<br>AND<br>C156<br>AND<br>C180 | C158<br>AND<br>C156<br>AND<br>C180<br>AND<br>C183 | C158<br>AND<br>C156<br>AND<br>C180<br>AND<br>C183 | C158<br>AND<br>C156<br>AND<br>C180<br>AND<br>C183 | C158<br>AND<br>C156<br>AND<br>C180<br>AND<br>C183 | E.1/66 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|-----------------|-------------|------------------------------------|------------------------------------|------------------------------------|---|---|---|---|--|---|--------------|---|
|      | Text attribute – bold on                              | Rel-5        | 4.6                     |                 |             | C160<br>AND<br>C159<br>AND<br>C180 | C160<br>AND<br>C159<br>AND<br>C180 | C160<br>AND<br>C159<br>AND<br>C180 | C160<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C160<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C160<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C160<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | E.1/66 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – italic on                            | Rel-5        | 4.7                     |                 |             | C161<br>AND<br>C159<br>AND<br>C180 | C161<br>AND<br>C159<br>AND<br>C180 | C161<br>AND<br>C159<br>AND<br>C180 | C161<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C161<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C161<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C161<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | E.1/66 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – underline on                         | Rel-5        | 4.8                     |                 |             | C162<br>AND<br>C159<br>AND<br>C180 | C162<br>AND<br>C159<br>AND<br>C180 | C162<br>AND<br>C159<br>AND<br>C180 | C162<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C162<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C162<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C162<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | E.1/66 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – strikethrough on                     | Rel-5        | 4.9                     |                 |             | C163<br>AND<br>C159<br>AND<br>C180 | C163<br>AND<br>C159<br>AND<br>C180 | C163<br>AND<br>C159<br>AND<br>C180 | C163<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C163<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C163<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | C163<br>AND<br>C159<br>AND<br>C180<br>AND<br>C183 | E.1/66 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – foreground and<br>background colours | Rel-5        | 4.10                    |                 |             | C164<br>AND<br>C165<br>AND<br>C180 | C164<br>AND<br>C165<br>AND<br>C180 | C164<br>AND<br>C165<br>AND<br>C180 | C164<br>AND<br>C165<br>AND<br>C180<br>AND<br>C183 | C164<br>AND<br>C165<br>AND<br>C180<br>AND<br>C183 | C164<br>AND<br>C165<br>AND<br>C180<br>AND<br>C183 | C164<br>AND<br>C165<br>AND<br>C180<br>AND<br>C183 | E.1/66 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | UCS2 display in Chinese                               | R99          | 5.1                     |                 |             | C143<br>AND<br>C180                | C143<br>AND<br>C180                | C143<br>AND<br>C180                | C143<br>AND<br>C180<br>AND<br>C183                | C143<br>AND<br>C180<br>AND<br>C183                | C143<br>AND<br>C180<br>AND<br>C183                | C143<br>AND<br>C180<br>AND<br>C183                | E.1/66 AND<br>E.1/15 AND<br>E.1/110                                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |



| Item      | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                    | Rel-4<br>ME                        | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile                                 | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|-----------|--|--------------|-------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---|---|--------------|---|
|           | UCS2 display in Katakana                                   | R99          | 6.1                     |                                    |                                    | C145<br>AND<br>C180                | C145<br>AND<br>C180                | C145<br>AND<br>C180                | C145<br>AND<br>C180                | C145<br>AND<br>C180                | C145<br>AND<br>C180                | C145<br>AND<br>C180                | E.1/66 AND<br>E.1/15 AND<br>E.1/110                 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|           | Frames   | Rel-6        | TBD                     |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    | E.1/66 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110 | TBD   |              |   |
| <b>29</b> | <b>LANGUAGE NOTIFICATION<br/>27.22.4.25</b>                |              |                         |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |   |   |              |   |
|           | Specific language notification                             | R99          | 1.1                     | C181                               | C181                               | C181                               | C181                               | C181                               | C181                               | C181                               | C181                               | C181                               | E.1/70  | No  |              |   |
|           | Non specific language notification                         | R99          | 1.2                     | C181                               | C181                               | C181                               | C181                               | C181                               | C181                               | C181                               | C181                               | C181                               | E.1/70  | No  |              |   |
| <b>30</b> | <b>LAUNCH BROWSER<br/>27.22.4.26</b>                       |              |                         |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |                                    |   |   |              |   |
|           | No session already launched:<br>Connect to the default URL | R99          | 1.1                     | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/110 AND<br>E.1/111                | Yes   |              |   |
|           | connect to the specified URL,<br>alpha identifier length=0 | R99          | 1.2                     | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/110 AND<br>E.1/111                | Yes   |              |   |
|           | Browser identity, no alpha identifier                      | R99          | 1.3                     | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/110 AND<br>E.1/111                | Yes   |              |   |
|           | one bearer specified and<br>gateway/proxy identity         | R99          | 1.4                     | C122<br>AND<br>C177<br>AND<br>C178 | C122<br>AND<br>C177<br>AND<br>C178 | C122<br>AND<br>C177<br>AND<br>C178 | C122<br>AND<br>C177<br>AND<br>C178 | C122<br>AND<br>C177<br>AND<br>C178 | C122<br>AND<br>C177<br>AND<br>C178 | C122<br>AND<br>C177<br>AND<br>C178 | C122<br>AND<br>C177<br>AND<br>C178 | C122<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/98 AND<br>E.1/110 AND<br>E.1/111  | Yes   |              |   |
|           | void   | R99          | 1.5                     | Void                               | Void                               | Void                               | Void                               | Void                               | Void                               | Void                               | Void                               | Void                               | void  |   |              |   |
|           | Interaction with current session                           | R99          | 2.1, 2.2,<br>2.3        | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/110 AND<br>E.1/111                | Yes   |              |   |

| Item | Description                       | Re-lease | Test sequence (s) | Rel 99 ME   | Rel-4 ME  | Rel-5 ME   | Rel-6 ME   | Rel-7 ME   | Rel-8 ME   | Rel-9 ME   | Rel-10 ME  | Rel-11 ME  | Terminal Profile  | Network Dependency | Support | Additional test case execution parameter |
|------|-----------------------------------|----------|-------------------|---|---|--|--|--|--|--|--|--|---|--------------------|---------|--|
|      | UCS2 display in Cyrillic          | R99      | 3.1               | C111<br>AND<br>C118<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C118<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C118<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C118<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C118<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C118<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C118<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C118<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C118<br>AND<br>C177<br>AND<br>C178                | E.1/71 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | Yes                |         |  |
|      | Icons – basic icon                | R99      | 4.1, 4.2          | C115<br>AND<br>C177<br>AND<br>C178                | C115<br>AND<br>C177<br>AND<br>C178                | C115<br>AND<br>C177<br>AND<br>C178                               | C115<br>AND<br>C177<br>AND<br>C178                               | C115<br>AND<br>C177<br>AND<br>C178                               | C115<br>AND<br>C177<br>AND<br>C178                               | C115<br>AND<br>C177<br>AND<br>C178                               | C115<br>AND<br>C177<br>AND<br>C178                               | C115<br>AND<br>C177<br>AND<br>C178                               | E.1/71 AND<br>E.1/110 AND<br>E.1/111  | Yes                |         |  |
|      | Text attribute – left alignment   | Rel-5    | 5.1               |   |   | C111<br>AND<br>C153<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C153<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C153<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C153<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C153<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C153<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C153<br>AND<br>C177<br>AND<br>C178                | E.1/71 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110 AND<br>E.1/111                | Yes                |         |  |
|      | Text attribute – center alignment | Rel-5    | 5.2               |   |   | C111<br>AND<br>C154<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C154<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C154<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C154<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C154<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C154<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C154<br>AND<br>C177<br>AND<br>C178                | E.1/71 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110 AND<br>E.1/111                | Yes                |         |  |
|      | Text attribute – right alignment  | Rel-5    | 5.3               |   |   | C111<br>AND<br>C155<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C155<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C155<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C155<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C155<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C155<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C155<br>AND<br>C177<br>AND<br>C178                | E.1/71 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110 AND<br>E.1/111                | Yes                |         |  |
|      | Text attribute – large font size  | Rel-5    | 5.4               |   |   | C111<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C157<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | Yes                |         |  |

| Item | Description                      | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME  | Rel-6<br>ME  | Rel-7<br>ME  | Rel-8<br>ME  | Rel-9<br>ME  | Rel-10<br>ME   | Rel-11<br>ME   | Terminal<br>Profile   | Network<br>Dependen-<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|----------------------------------|--------------|-------------------------|-----------------|-------------|--|--|--|--|--|--|--|---|----------------------------|--------------|---|
|      | Text attribute – small font size | Rel-5        | 5.5                     |                 |             | C111<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C158<br>AND<br>C156<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | Yes                        |              |   |
|      | Text attribute – bold on         | Rel-5        | 5.6                     |                 |             | C111<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C160<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 AND<br>E.1/111 | Yes                        |              |   |
|      | Text attribute – italic on       | Rel-5        | 5.7                     |                 |             | C111<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C161<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 AND<br>E.1/111 | Yes                        |              |   |
|      | Text attribute – underline on    | Rel-5        | 5.8                     |                 |             | C111<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C162<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 AND<br>E.1/111 | Yes                        |              |   |

| Item      | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME  | Rel-6<br>ME  | Rel-7<br>ME  | Rel-8<br>ME  | Rel-9<br>ME  | Rel-10<br>ME   | Rel-11<br>ME   | Terminal<br>Profile   | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|-----------|---|--------------|-------------------------|-----------------|-------------|--|--|--|--|--|--|--|---|---------------------------|--------------|---|
|           | Text attribute – strikethrough on                     | Rel-5        | 5.9                     |                 |             | C111<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C163<br>AND<br>C159<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 AND<br>E.1/111 | Yes                       |              |   |
|           | Text attribute – foreground and<br>background colours | Rel-5        | 5.10                    |                 |             | C111<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | C111<br>AND<br>C164<br>AND<br>C165<br>AND<br>C177<br>AND<br>C178 | E.1/71 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 AND<br>E.1/111 | Yes                       |              |   |
|           | UCS2 display in Chinese                               | R99          | 6.1                     |                 |             | C111<br>AND<br>C143<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C143<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C143<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C143<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C143<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C143<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C143<br>AND<br>C177<br>AND<br>C178                | E.1/71 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | Yes                       |              |   |
|           | UCS2 display in Katakana                              | R99          | 7.1                     |                 |             | C111<br>AND<br>C145<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C145<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C145<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C145<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C145<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C145<br>AND<br>C177<br>AND<br>C178                | C111<br>AND<br>C145<br>AND<br>C177<br>AND<br>C178                | E.1/71 AND<br>E.1/15 AND<br>E.1/110 AND<br>E.1/111                                | Yes                       |              |   |
|           | Frames  | Rel-6        | TBD                     |                 |             |  |  |  |  |  |  |  | E.1/71 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110 AND<br>E.1/111                | TBD                       |              |   |
| <b>31</b> | <b>OPEN CHANNEL 27.22.4.27</b>                        |              |                         |                 |             |  |  |  |  |  |  |  |   |                           |              |   |
|           | void  | R99          | void                    | Void            | void        | void   | void   | void   | void   | void   | void   | void   | void  |                           |              |   |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME     | Rel-4<br>ME         | Rel-5<br>ME         | Rel-6<br>ME         | Rel-7<br>ME         | Rel-8<br>ME                        | Rel-9<br>ME                        | Rel-10<br>ME                       | Rel-11<br>ME                       | Terminal<br>Profile   | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---|---|--------------|---|
|      | immediate link establishment, GPRS, no local address, no alpha identifier, no network access name                 | R99          | 2.1                     | C121                | C121                | C121                | C121                | C121                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | E.1/89 AND<br>E.1/98  | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | AER001                                      |
|      | immediate link establishment GPRS, no alpha identifier, with network access name                                  | R99          | 2.2                     | C121                | C121                | C121                | C121                | C121                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | E.1/89 AND<br>E.1/98  | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | AER006                                      |
|      | immediate link establishment, GPRS, with alpha identifier   | R99          | 2.3                     | C121                | C121                | C121                | C121                | C121                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | E.1/89 AND<br>E.1/98 AND<br>E.1/110 AND<br>E.1/111                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002,<br>AER005                 |
|      | immediate link establishment, GPRS, with null alpha identifier  | R99          | 2.4                     | C121                | C121                | C121                | C121                | C121                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | C121<br>AND<br>C183                | E.1/89 AND<br>E.1/98  | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | immediate link establishment, GPRS, command performed with modifications (buffer size)                            | R99          | 2.5                     | C152                | C152                | C152                | C152                | C152                | C152<br>AND<br>C183                | C152<br>AND<br>C183                | C152<br>AND<br>C183                | C152<br>AND<br>C183                | E.1/89 AND<br>E.1/98  | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | void  | void         | 2.6                     | Void                | void                | void                | void                | void                | Void                               | Void                               | Void                               | Void                               | void  |   |              |   |
|      | immediate link establishment, GPRS, open command with alpha identifier, User did not accept the proactive command | R99          | 2.7                     | C169<br>AND<br>C177 | C169<br>AND<br>C177 | C169<br>AND<br>C177 | C169<br>AND<br>C177 | C169<br>AND<br>C177 | C169<br>AND<br>C183<br>AND<br>C177 | C169<br>AND<br>C183<br>AND<br>C177 | C169<br>AND<br>C183<br>AND<br>C177 | C169<br>AND<br>C183<br>AND<br>C177 | E.1/89 AND<br>E.1/98 AND<br>E.1/110 AND<br>E.1/111                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002,<br>AER007                 |
|      | void  | void         | 2.8                     | Void                | void                | void                | void                | void                | Void                               | Void                               | Void                               | Void                               | void  |   |              |   |
|      | OPEN CHANNEL, immediate link establishment, no alpha identifier, with network access name                         | R99          | 2.9                     |                     |                     |                     |                     |                     |                                    | C191<br>AND<br>C183                | C191<br>AND<br>C183                | C191<br>AND<br>C183                | E.1/89 AND<br>E.1/98 AND<br>E.1/129 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |

| Item | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile   | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|--|--------------|-------------------------|-----------------|-------------|------------------------------------|------------------------------------|------------------------------------|---|---|---|---|---|---|--------------|---|
|      | Multi OPEN CHANNEL, one in TCP Server mode and one in TCP Client mode. | Rel-7        | 2.10                    |                 |             |                                    |                                    |                                    |   | C192<br>AND<br>C183                               | C192<br>AND<br>C183                               | C192<br>AND<br>C183                               | E.1/89 AND<br>E.1/98 AND<br>E.1/129 AND<br>E.1/131  | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Default bearer   | R99          | TBD                     |                 |             |                                    |                                    |                                    |   |   |   |   | E.1/89 AND<br>E.1/98 AND<br>C132  | TBD   |              |   |
|      | Local Bearer   | Rel-4        | TBD                     |                 |             |                                    |                                    |                                    |   |   |   |   | E.1/89 AND<br>E.1/98 AND<br>C132  | TBD   |              |   |
|      | Text attribute – left alignment  | Rel-5        | 5.1                     |                 |             | C121<br>AND<br>C153                | C121<br>AND<br>C153                | C121<br>AND<br>C153                | C121<br>AND<br>C153<br>AND<br>C183                | C121<br>AND<br>C153<br>AND<br>C183                | C121<br>AND<br>C153<br>AND<br>C183                | C121<br>AND<br>C153<br>AND<br>C183                | E.1/89 AND<br>E.1/98 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110 AND<br>E.1/111                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002                            |
|      | Text attribute – center alignment                                      | Rel-5        | 5.2                     |                 |             | C121<br>AND<br>C154                | C121<br>AND<br>C154                | C121<br>AND<br>C154                | C121<br>AND<br>C154<br>AND<br>C183                | C121<br>AND<br>C154<br>AND<br>C183                | C121<br>AND<br>C154<br>AND<br>C183                | C121<br>AND<br>C154<br>AND<br>C183                | E.1/89 AND<br>E.1/98 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110 AND<br>E.1/111                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002                            |
|      | Text attribute – right alignment                                       | Rel-5        | 5.3                     |                 |             | C121<br>AND<br>C155                | C121<br>AND<br>C155                | C121<br>AND<br>C155                | C121<br>AND<br>C155<br>AND<br>C183                | C121<br>AND<br>C155<br>AND<br>C183                | C121<br>AND<br>C155<br>AND<br>C183                | C121<br>AND<br>C155<br>AND<br>C183                | E.1/89 AND<br>E.1/98 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110 AND<br>E.1/111                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002                            |
|      | Text attribute – large font size                                       | Rel-5        | 5.4                     |                 |             | C121<br>AND<br>C157<br>AND<br>C156 | C121<br>AND<br>C157<br>AND<br>C156 | C121<br>AND<br>C157<br>AND<br>C156 | C121<br>AND<br>C157<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C157<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C157<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C157<br>AND<br>C156<br>AND<br>C183 | E.1/89 AND<br>E.1/98 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002                            |
|      | Text attribute – small font size                                       | Rel-5        | 5.5                     |                 |             | C121<br>AND<br>C158<br>AND<br>C156 | C121<br>AND<br>C158<br>AND<br>C156 | C121<br>AND<br>C158<br>AND<br>C156 | C121<br>AND<br>C158<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C158<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C158<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C158<br>AND<br>C156<br>AND<br>C183 | E.1/89 AND<br>E.1/98 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002                            |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile   | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|-----------------|-------------|------------------------------------|------------------------------------|------------------------------------|---|---|---|---|---|---|--------------|---|
|      | Text attribute – bold on                                    | Rel-5        | 5.6                     |                 |             | C121<br>AND<br>C160<br>AND<br>C159 | C121<br>AND<br>C160<br>AND<br>C159 | C121<br>AND<br>C160<br>AND<br>C159 | C121<br>AND<br>C160<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C160<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C160<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C160<br>AND<br>C159<br>AND<br>C183 | E.1/89 AND<br>E.1/98 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002                            |
|      | Text attribute – italic on                                  | Rel-5        | 5.7                     |                 |             | C121<br>AND<br>C161<br>AND<br>C159 | C121<br>AND<br>C161<br>AND<br>C159 | C121<br>AND<br>C161<br>AND<br>C159 | C121<br>AND<br>C161<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C161<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C161<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C161<br>AND<br>C159<br>AND<br>C183 | E.1/89 AND<br>E.1/98 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002                            |
|      | Text attribute – underline on                               | Rel-5        | 5.8                     |                 |             | C121<br>AND<br>C162<br>AND<br>C159 | C121<br>AND<br>C162<br>AND<br>C159 | C121<br>AND<br>C162<br>AND<br>C159 | C121<br>AND<br>C162<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C162<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C162<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C162<br>AND<br>C159<br>AND<br>C183 | E.1/89 AND<br>E.1/98 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002                            |
|      | Text attribute – strikethrough on                           | Rel-5        | 5.9                     |                 |             | C121<br>AND<br>C163<br>AND<br>C159 | C121<br>AND<br>C163<br>AND<br>C159 | C121<br>AND<br>C163<br>AND<br>C159 | C121<br>AND<br>C163<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C163<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C163<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C163<br>AND<br>C159<br>AND<br>C183 | E.1/89 AND<br>E.1/98 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002                            |
|      | Text attribute – foreground and<br>background colours       | Rel-5        | 5.10                    |                 |             | C121<br>AND<br>C164<br>AND<br>C165 | C121<br>AND<br>C164<br>AND<br>C165 | C121<br>AND<br>C164<br>AND<br>C165 | C121<br>AND<br>C164<br>AND<br>C165<br>AND<br>C183 | C121<br>AND<br>C164<br>AND<br>C165<br>AND<br>C183 | C121<br>AND<br>C164<br>AND<br>C165<br>AND<br>C183 | C121<br>AND<br>C164<br>AND<br>C165<br>AND<br>C183 | E.1/89 AND<br>E.1/98 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001, TCEP002                            |
|      | Frames  | Rel-6        | TBD                     |                 |             |                                    |                                    |                                    |   |   |   |   | E.1/89 AND<br>E.1/98 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110 AND<br>E.1/111                | TBD   |              |   |
|      | Immediate link establishment, E-<br>UTRAN, bearer type '02' | Rel-8        | 6.1                     |                 |             |                                    |                                    |                                    | C182  | C182  | C182  | C182  | E.1/89 AND<br>E.1/135   | E-USS<br>only   |              |   |

| Item      | Description   | Release | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME      | Rel-6 ME      | Rel-7 ME      | Rel-8 ME               | Rel-9 ME               | Rel-10 ME              | Rel-11 ME              | Terminal Profile                                      | Network Dependency                             | Support | Additional test case execution parameter |
|-----------|---|---------|-------------------|-----------|----------|---------------|---------------|---------------|------------------------|------------------------|------------------------|------------------------|---|--|---------|--|
|           | Immediate link establishment, E-UTRAN, bearer type '0B'   | Rel-8   | 6.2               |           |          |               |               |               | C182                   | C182                   | C182                   | C182                   | E.1/89 AND E.1/135                                    | E-USS only                                     |         |  |
|           | Immediate link establishment, E-UTRAN, bearer type '02', with Network Access Name, with alpha identifier                  | Rel-8   | 6.3               |           |          |               |               |               | C182                   | C182                   | C182                   | C182                   | E.1/89 AND E.1/110 AND E.1/111 AND E.1/135            | E-USS only                                     |         | TCEP001, TCEP002                         |
|           | Immediate link establishment, E-UTRAN, bearer type '03', with alpha identifier, user did not accept the proactive command | Rel-8   | 6.4               |           |          |               |               |               | C182 AND C177          | C182 AND C177          | C182 AND C177          | C182 AND C177          | E.1/89 AND E.1/110 AND E.1/111 AND E.1/135            | E-USS only                                     |         |  |
|           | Immediate link establishment, E-UTRAN, bearer type '03', default EPS bearer   | Rel-8   | 6.5               |           |          |               |               |               | C182                   | C182                   | C182                   | C182                   | E.1/89 AND E.1/135                                    | E-USS only                                     |         |  |
|           | OPEN CHANNEL for IMS, IARI list stored on the USIM  | Rel-10  | 7.1               |           |          |               |               |               |                        |                        | C207                   | C207                   | E.1/33 AND E.1/89 AND E.1/247 AND E.1/249             | UMTS System Simulator OR E-USS                 |         |  |
| <b>32</b> | <b>CLOSE CHANNEL 27.22.4.28</b>   |         |                   |           |          |               |               |               |                        |                        |                        |                        |   |  |         |  |
|           | successful  | R99     | 1.1               | C121      | C121     | C121          | C121          | C121          | C121 AND C183          | C121 AND C183          | C121 AND C183          | C121 AND C183          | E.1/89 AND E.1/90                                     | UMTS System Simulator or System Simulator only |         |  |
|           | with an invalid channel identifier  | R99     | 1.2               | C121      | C121     | C121          | C121          | C121          | C121 AND C183          | C121 AND C183          | C121 AND C183          | C121 AND C183          | E.1/89 AND E.1/90                                     | UMTS System Simulator or System Simulator only |         |  |
|           | on an already closed channel  | R99     | 1.3               | C121      | C121     | C121          | C121          | C121          | C121 AND C183          | C121 AND C183          | C121 AND C183          | C121 AND C183          | E.1/90  | UMTS System Simulator or System Simulator only |         |  |
|           | Text attribute – left alignment   | Rel-5   | 2.1               |           |          | C121 AND C153 | C121 AND C153 | C121 AND C153 | C121 AND C153 AND C183 | C121 AND C153 AND C183 | C121 AND C153 AND C183 | C121 AND C153 AND C183 | E.1/89 AND E.1/90 AND E.1/124 AND E.1/217 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |



| Item | Description                       | Re-lease | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME               | Rel-6 ME               | Rel-7 ME               | Rel-8 ME               | Rel-9 ME                        | Rel-10 ME                       | Rel-11 ME                       | Terminal Profile  | Network Dependency                             | Support | Additional test case execution parameter |
|------|-----------------------------------|----------|-------------------|-----------|----------|------------------------|------------------------|------------------------|------------------------|---------------------------------|---------------------------------|---------------------------------|---|--|---------|--|
|      | Text attribute – center alignment | Rel-5    | 2.2               |           |          | C121 AND C154          | C121 AND C154          | C121 AND C154          | C121 AND C154 AND C183 | C121 AND C154 AND C183          | C121 AND C154 AND C183          | C121 AND C154 AND C183          | E.1/89 AND E.1/90 AND E.1/124 AND E.1/218 AND E.1/110             | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Text attribute – right alignment  | Rel-5    | 2.3               |           |          | C121 AND C155          | C121 AND C155          | C121 AND C155          | C121 AND C155 AND C183 | C121 AND C155 AND C183          | C121 AND C155 AND C183          | C121 AND C155 AND C183          | E.1/89 AND E.1/90 AND E.1/124 AND E.1/219 AND E.1/110             | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Text attribute – large font size  | Rel-5    | 2.4               |           |          | C121 AND C157 AND C156 | C121 AND C157 AND C156 | C121 AND C157 AND C156 | C121 AND C156 AND C183 | C121 AND C157 AND C156 AND C183 | C121 AND C157 AND C156 AND C183 | C121 AND C157 AND C156 AND C183 | E.1/89 AND E.1/90 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Text attribute – small font size  | Rel-5    | 2.5               |           |          | C121 AND C158 AND C156 | C121 AND C158 AND C156 | C121 AND C158 AND C156 | C121 AND C156 AND C183 | C121 AND C158 AND C156 AND C183 | C121 AND C158 AND C156 AND C183 | C121 AND C158 AND C156 AND C183 | E.1/89 AND E.1/90 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Text attribute – bold on          | Rel-5    | 2.6               |           |          | C121 AND C160 AND C159 | C121 AND C160 AND C159 | C121 AND C160 AND C159 | C121 AND C159 AND C183 | C121 AND C160 AND C159 AND C183 | C121 AND C160 AND C159 AND C183 | C121 AND C160 AND C159 AND C183 | E.1/89 AND E.1/90 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Text attribute – italic on        | Rel-5    | 2.7               |           |          | C121 AND C161 AND C159 | C121 AND C161 AND C159 | C121 AND C161 AND C159 | C121 AND C159 AND C183 | C121 AND C161 AND C159 AND C183 | C121 AND C161 AND C159 AND C183 | C121 AND C161 AND C159 AND C183 | E.1/89 AND E.1/90 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |

| Item      | Description  | Release | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME               | Rel-6 ME               | Rel-7 ME               | Rel-8 ME                        | Rel-9 ME                        | Rel-10 ME                       | Rel-11 ME                       | Terminal Profile  | Network Dependency                             | Support | Additional test case execution parameter |
|-----------|--|---------|-------------------|-----------|----------|------------------------|------------------------|------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---|--|---------|--|
|           | Text attribute – underline on                              | Rel-5   | 2.8               |           |          | C121 AND C162 AND C159 | C121 AND C162 AND C159 | C121 AND C162 AND C159 | C121 AND C162 AND C159 AND C183 | C121 AND C162 AND C159 AND C183 | C121 AND C162 AND C159 AND C183 | C121 AND C162 AND C159 AND C183 | E.1/89 AND E.1/90 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|           | Text attribute – strikethrough on                          | Rel-5   | 2.9               |           |          | C121 AND C163 AND C159 | C121 AND C163 AND C159 | C121 AND C163 AND C159 | C121 AND C163 AND C159 AND C183 | C121 AND C163 AND C159 AND C183 | C121 AND C163 AND C159 AND C183 | C121 AND C163 AND C159 AND C183 | E.1/89 AND E.1/90 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|           | Text attribute – foreground and background colours         | Rel-5   | 2.10              |           |          | C121 AND C164 AND C165 | C121 AND C164 AND C165 | C121 AND C164 AND C165 | C121 AND C164 AND C165 AND C183 | C121 AND C164 AND C165 AND C183 | C121 AND C164 AND C165 AND C183 | C121 AND C164 AND C165 AND C183 | E.1/89 AND E.1/90 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|           | Frames   | Rel-6   | TBD               |           |          |                        |                        |                        |                                 |                                 |                                 |                                 | E.1/89 AND E.1/98 AND E.1/177 AND E.1/178 AND E.1/110             | TBD  |         |  |
|           | Default EPS bearer, successful                             | Rel-8   | 3.1               |           |          |                        |                        |                        | C182                            | C182                            | C182                            | C182                            | E.1/89 AND E.1/90   | E-USS only                                     |         |  |
|           | EPS bearer with APN different from default APN, successful | Rel-8   | 3.2               |           |          |                        |                        |                        | C182                            | C182                            | C182                            | C182                            | E.1/89 AND E.1/90   | E-USS only                                     |         |  |
| <b>33</b> | <b>RECEIVE DATA 27.22.4.29</b>                             |         |                   |           |          |                        |                        |                        |                                 |                                 |                                 |                                 |   |  |         |  |
|           | already opened channel                                     | R99     | 1.1               | C121      | C121     | C121                   | C121                   | C121                   | C121 AND C183                   | C121 AND C183                   | C121 AND C183                   | C121 AND C183                   | E.1/89 AND E.1/91 AND E.1/92                                      | UMTS System Simulator or System Simulator only |         | AER008                                   |
|           | Text attribute – left alignment                            | Rel-5   | 2.1               |           |          | C121 AND C153          | C121 AND C153          | C121 AND C153          | C121 AND C153 AND C183          | C121 AND C153 AND C183          | C121 AND C153 AND C183          | C121 AND C153 AND C183          | E.1/89 AND E.1/91 AND E.1/92 AND E.1/124 AND E.1/217 AND E.1/110  | UMTS System Simulator or System Simulator only |         | TCEP001                                  |

| Item | Description                       | Release | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME               | Rel-6 ME               | Rel-7 ME               | Rel-8 ME               | Rel-9 ME                        | Rel-10 ME                       | Rel-11 ME                       | Terminal Profile  | Network Dependency                             | Support | Additional test case execution parameter |
|------|-----------------------------------|---------|-------------------|-----------|----------|------------------------|------------------------|------------------------|------------------------|---------------------------------|---------------------------------|---------------------------------|---|--|---------|--|
|      | Text attribute – center alignment | Rel-5   | 2.2               |           |          | C121 AND C154          | C121 AND C154          | C121 AND C154          | C121 AND C154 AND C183 | C121 AND C154 AND C183          | C121 AND C154 AND C183          | C121 AND C154 AND C183          | E.1/89 AND E.1/91 AND E.1/124 AND E.1/218 AND E.1/110             | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Text attribute – right alignment  | Rel-5   | 2.3               |           |          | C121 AND C155          | C121 AND C155          | C121 AND C155          | C121 AND C155 AND C183 | C121 AND C155 AND C183          | C121 AND C155 AND C183          | C121 AND C155 AND C183          | E.1/89 AND E.1/91 AND E.1/124 AND E.1/219 AND E.1/110             | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Text attribute – large font size  | Rel-5   | 2.4               |           |          | C121 AND C157 AND C156 | C121 AND C157 AND C156 | C121 AND C157 AND C156 | C121 AND C156 AND C183 | C121 AND C157 AND C156 AND C183 | C121 AND C157 AND C156 AND C183 | C121 AND C157 AND C156 AND C183 | E.1/89 AND E.1/91 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Text attribute – small font size  | Rel-5   | 2.5               |           |          | C121 AND C158 AND C156 | C121 AND C158 AND C156 | C121 AND C158 AND C156 | C121 AND C156 AND C183 | C121 AND C158 AND C156 AND C183 | C121 AND C158 AND C156 AND C183 | C121 AND C158 AND C156 AND C183 | E.1/89 AND E.1/91 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Text attribute – bold on          | Rel-5   | 2.6               |           |          | C121 AND C160 AND C159 | C121 AND C160 AND C159 | C121 AND C160 AND C159 | C121 AND C159 AND C183 | C121 AND C160 AND C159 AND C183 | C121 AND C160 AND C159 AND C183 | C121 AND C160 AND C159 AND C183 | E.1/89 AND E.1/91 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|      | Text attribute – italic on        | Rel-5   | 2.7               |           |          | C121 AND C161 AND C159 | C121 AND C161 AND C159 | C121 AND C161 AND C159 | C121 AND C159 AND C183 | C121 AND C161 AND C159 AND C183 | C121 AND C161 AND C159 AND C183 | C121 AND C161 AND C159 AND C183 | E.1/89 AND E.1/91 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |

| Item      | Description  | Release | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME               | Rel-6 ME               | Rel-7 ME               | Rel-8 ME                        | Rel-9 ME                        | Rel-10 ME                       | Rel-11 ME                       | Terminal Profile  | Network Dependency                             | Support | Additional test case execution parameter |
|-----------|--|---------|-------------------|-----------|----------|------------------------|------------------------|------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---|--|---------|--|
|           | Text attribute – underline on                                | Rel-5   | 2.8               |           |          | C121 AND C162 AND C159 | C121 AND C162 AND C159 | C121 AND C162 AND C159 | C121 AND C162 AND C159 AND C183 | C121 AND C162 AND C159 AND C183 | C121 AND C162 AND C159 AND C183 | C121 AND C162 AND C159 AND C183 | E.1/89 AND E.1/91 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|           | Text attribute – strikethrough on                            | Rel-5   | 2.9               |           |          | C121 AND C163 AND C159 | C121 AND C163 AND C159 | C121 AND C163 AND C159 | C121 AND C163 AND C159 AND C183 | C121 AND C163 AND C159 AND C183 | C121 AND C163 AND C159 AND C183 | C121 AND C163 AND C159 AND C183 | E.1/89 AND E.1/91 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|           | Text attribute– foreground and background colours            | Rel-5   | 2.10              |           |          | C121 AND C164 AND C165 | C121 AND C164 AND C165 | C121 AND C164 AND C165 | C121 AND C164 AND C165 AND C183 | C121 AND C164 AND C165 AND C183 | C121 AND C164 AND C165 AND C183 | C121 AND C164 AND C165 AND C183 | E.1/89 AND E.1/91 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|           | Frames   | Rel-6   | TBD               |           |          |                        |                        |                        |                                 |                                 |                                 |                                 | E.1/89 AND E.1/91 AND E.1/177 AND E.1/178 AND E.1/110             | TBD  |         |  |
|           | Already opened channel – E-UTRAN, APN different from default | Rel-8   | 1.2               |           |          |                        |                        |                        | C182                            | C182                            | C182                            | C182                            | E.1/89 AND E.1/91 AND E.1/92                                      | E-USS only                                     |         |  |
| <b>34</b> | <b>SEND DATA 27.22.4.30</b>                                  |         |                   |           |          |                        |                        |                        |                                 |                                 |                                 |                                 |   |  |         |  |
|           | immediate mode   | R99     | 1.1               | C121      | C121     | C121                   | C121                   | C121                   | C121 AND C183                   | C121 AND C183                   | C121 AND C183                   | C121 AND C183                   | E.1/89 AND E.1/92   | UMTS System Simulator or System Simulator only |         |  |
|           | Store mode   | R99     | 1.2               | C121      | C121     | C121                   | C121                   | C121                   | C121 AND C183                   | C121 AND C183                   | C121 AND C183                   | C121 AND C183                   | E.1/89 AND E.1/92   | UMTS System Simulator or System Simulator only |         |  |

| Item | Description                                  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|--|--------------|-------------------------|-----------------|-------------|------------------------------------|------------------------------------|------------------------------------|---|---|---|---|--|---|--------------|---|
|      | Store mode, Tx buffer fully used             | R99          | 1.3                     | C121            | C121        | C121                               | C121                               | C121                               | C121<br>AND<br>C183                               | C121<br>AND<br>C183                               | C121<br>AND<br>C183                               | C121<br>AND<br>C183                               | E.1/89 AND<br>E.1/92   | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | 2 consecutive SEND DATA Store mode           | R99          | 1.4                     | C121            | C121        | C121                               | C121                               | C121                               | C121<br>AND<br>C183                               | C121<br>AND<br>C183                               | C121<br>AND<br>C183                               | C121<br>AND<br>C183                               | E.1/89 AND<br>E.1/92   | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | immediate mode with a bad channel identifier | R99          | 1.5                     | C121            | C121        | C121                               | C121                               | C121                               | C121<br>AND<br>C183                               | C121<br>AND<br>C183                               | C121<br>AND<br>C183                               | C121<br>AND<br>C183                               | E.1/89 AND<br>E.1/92   | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | void   |              |                         |                 |             |                                    |                                    |                                    |   |   |   |   |  |   |              |   |
|      | Text attribute– left alignment               | Rel-5        | 2.1                     |                 |             | C121<br>AND<br>C153                | C121<br>AND<br>C153                | C121<br>AND<br>C153                | C121<br>AND<br>C153<br>AND<br>C183                | C121<br>AND<br>C153<br>AND<br>C183                | C121<br>AND<br>C153<br>AND<br>C183                | C121<br>AND<br>C153<br>AND<br>C183                | E.1/89 AND<br>E.1/92 AND<br>E.1/124 AND<br>E.1/217 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – center alignment            | Rel-5        | 2.2                     |                 |             | C121<br>AND<br>C154                | C121<br>AND<br>C154                | C121<br>AND<br>C154                | C121<br>AND<br>C154<br>AND<br>C183                | C121<br>AND<br>C154<br>AND<br>C183                | C121<br>AND<br>C154<br>AND<br>C183                | C121<br>AND<br>C154<br>AND<br>C183                | E.1/89 AND<br>E.1/92 AND<br>E.1/124 AND<br>E.1/218 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – right alignment             | Rel-5        | 2.3                     |                 |             | C121<br>AND<br>C155                | C121<br>AND<br>C155                | C121<br>AND<br>C155                | C121<br>AND<br>C155<br>AND<br>C183                | C121<br>AND<br>C155<br>AND<br>C183                | C121<br>AND<br>C155<br>AND<br>C183                | C121<br>AND<br>C155<br>AND<br>C183                | E.1/89 AND<br>E.1/92 AND<br>E.1/124 AND<br>E.1/219 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – large font size             | Rel-5        | 2.4                     |                 |             | C121<br>AND<br>C157<br>AND<br>C156 | C121<br>AND<br>C157<br>AND<br>C156 | C121<br>AND<br>C157<br>AND<br>C156 | C121<br>AND<br>C157<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C157<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C157<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C157<br>AND<br>C156<br>AND<br>C183 | E.1/89 AND<br>E.1/92 AND<br>E.1/124 AND<br>E.1/221 AND<br>E.1/220 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |

| Item | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME                        | Rel-6<br>ME                        | Rel-7<br>ME                        | Rel-8<br>ME                                       | Rel-9<br>ME                                       | Rel-10<br>ME                                      | Rel-11<br>ME                                      | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|--|--------------|-------------------------|-----------------|-------------|------------------------------------|------------------------------------|------------------------------------|---|---|---|---|--|---|--------------|---|
|      | Text attribute – small font size                     | Rel-5        | 2.5                     |                 |             | C121<br>AND<br>C158<br>AND<br>C156 | C121<br>AND<br>C158<br>AND<br>C156 | C121<br>AND<br>C158<br>AND<br>C156 | C121<br>AND<br>C158<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C158<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C158<br>AND<br>C156<br>AND<br>C183 | C121<br>AND<br>C158<br>AND<br>C156<br>AND<br>C183 | E.1/89 AND<br>E.1/92 AND<br>E.1/124 AND<br>E.1/222 AND<br>E.1/220 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – bold on                             | Rel-5        | 2.6                     |                 |             | C121<br>AND<br>C160<br>AND<br>C159 | C121<br>AND<br>C160<br>AND<br>C159 | C121<br>AND<br>C160<br>AND<br>C159 | C121<br>AND<br>C160<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C160<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C160<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C160<br>AND<br>C159<br>AND<br>C183 | E.1/89 AND<br>E.1/92 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/226 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – italic on                           | Rel-5        | 2.7                     |                 |             | C121<br>AND<br>C161<br>AND<br>C159 | C121<br>AND<br>C161<br>AND<br>C159 | C121<br>AND<br>C161<br>AND<br>C159 | C121<br>AND<br>C161<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C161<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C161<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C161<br>AND<br>C159<br>AND<br>C183 | E.1/89 AND<br>E.1/92 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/227 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – underline on                        | Rel-5        | 2.8                     |                 |             | C121<br>AND<br>C162<br>AND<br>C159 | C121<br>AND<br>C162<br>AND<br>C159 | C121<br>AND<br>C162<br>AND<br>C159 | C121<br>AND<br>C162<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C162<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C162<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C162<br>AND<br>C159<br>AND<br>C183 | E.1/89 AND<br>E.1/92 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/228 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute – strikethrough on                    | Rel-5        | 2.9                     |                 |             | C121<br>AND<br>C163<br>AND<br>C159 | C121<br>AND<br>C163<br>AND<br>C159 | C121<br>AND<br>C163<br>AND<br>C159 | C121<br>AND<br>C163<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C163<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C163<br>AND<br>C159<br>AND<br>C183 | C121<br>AND<br>C163<br>AND<br>C159<br>AND<br>C183 | E.1/89 AND<br>E.1/92 AND<br>E.1/124 AND<br>E.1/225 AND<br>E.1/229 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Text attribute– foreground and<br>background colours | Rel-5        | 2.10                    |                 |             | C121<br>AND<br>C164<br>AND<br>C165 | C121<br>AND<br>C164<br>AND<br>C165 | C121<br>AND<br>C164<br>AND<br>C165 | C121<br>AND<br>C164<br>AND<br>C165<br>AND<br>C183 | C121<br>AND<br>C164<br>AND<br>C165<br>AND<br>C183 | C121<br>AND<br>C164<br>AND<br>C165<br>AND<br>C183 | C121<br>AND<br>C164<br>AND<br>C165<br>AND<br>C183 | E.1/89 AND<br>E.1/92 AND<br>E.1/124 AND<br>E.1/230 AND<br>E.1/231 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |

| Item      | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME | Rel-6<br>ME | Rel-7<br>ME | Rel-8<br>ME         | Rel-9<br>ME         | Rel-10<br>ME        | Rel-11<br>ME        | Terminal<br>Profile   | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|-----------|--|--------------|-------------------------|-----------------|-------------|-------------|-------------|-------------|---------------------|---------------------|---------------------|---------------------|---|---|--------------|---|
|           | Frames   | Rel-6        | TBD                     |                 |             |             |             |             |                     |                     |                     |                     | E.1/89 AND<br>E.1/92 AND<br>E.1/177 AND<br>E.1/178 AND<br>E.1/110 | TBD   |              |   |
|           | Immediate mode – E-UTRAN,<br>Default EPS bearer                            | Rel-8        | 3.1                     |                 |             |             |             |             | C182                | C182                | C182                | C182                | E.1/89 AND<br>E.1/92  | E-USS<br>only   |              |   |
|           | Store mode – E-UTRAN, APN<br>different from default APN                    | Rel-8        | 3.2                     |                 |             |             |             |             | C182                | C182                | C182                | C182                | E.1/89 AND<br>E.1/92  | E-USS<br>only   |              |   |
| <b>35</b> | <b>GET CHANNEL STATUS<br/>27.22.4.31</b>                                   |              |                         |                 |             |             |             |             |                     |                     |                     |                     |   |   |              |   |
|           | without any BIP channel opened   | R99          | 1.1                     | C121            | C121        | C121        | C121        | C121        | C121<br>AND<br>C183 | C121<br>AND<br>C183 | C121<br>AND<br>C183 | C121<br>AND<br>C183 | E.1/93  | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|           | with a BIP channel currently<br>opened                                     | R99          | 1.2                     | C121            | C121        | C121        | C121        | C121        | C121<br>AND<br>C183 | C121<br>AND<br>C183 | C121<br>AND<br>C183 | C121<br>AND<br>C183 | E.1/89 AND<br>E.1/93  | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|           | after a link dropped   | R99          | 1.3                     | C121            | C121        | C121        | C121        | C121        | C121<br>AND<br>C183 | C121<br>AND<br>C183 | C121<br>AND<br>C183 | C121<br>AND<br>C183 | E.1/89 AND<br>E.1/93  | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|           | EPS bearer with APN different<br>from default APN                          | Rel-8        | 1.4                     |                 |             |             |             |             | C182                | C182                | C182                | C182                | E.1/89 AND<br>E.1/93  | E-USS<br>only   |              |   |
|           | EPS bearer with APN different<br>from default APN, after a link<br>dropped | Rel-8        | 1.5                     |                 |             |             |             |             | C182                | C182                | C182                | C182                | E.1/89 AND<br>E.1/93  | E-USS<br>only   |              |   |
| <b>36</b> | <b>DATA DOWNLOAD TO UICC<br/>27.22.5</b>                                   |              |                         |                 |             |             |             |             |                     |                     |                     |                     |   |   |              |   |
| <b>37</b> | <b>SMS-PP DATA DOWNLOAD<br/>27.22.5.1</b>                                  |              |                         |                 |             |             |             |             |                     |                     |                     |                     |   |   |              |   |
|           | void   |              | 1.1 - 1.8               |                 |             |             |             |             |                     |                     |                     |                     |   |   |              |   |
|           | SMS-PP Data Download over CS,<br>UTRAN/GERAN                               | R99          | 1.9                     | M               | M           | M           | M           | M           | C183                | C183                | C183                | C183                | E.1/2   | UMTS<br>System<br>Simulator<br>or System<br>Simulator         |              | TCEP001                                     |

| Item  | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME     | Rel-4<br>ME         | Rel-5<br>ME         | Rel-6<br>ME         | Rel-7<br>ME         | Rel-8<br>ME         | Rel-9<br>ME         | Rel-10<br>ME        | Rel-11<br>ME        | Terminal<br>Profile  | Network<br>Dependen-<br>cy          | Sup-<br>port | Additional test case<br>execution parameter |
|---|---|--------------|-------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|-------------------------------------|--------------|---|
| 38  | <b>CELL BROADCAST DATA<br/>DOWNLOAD 27.22.5.2</b>                 |              |                         |                     |                     |                     |                     |                     |                     |                     |                     |                     |                      |                                     |              |   |
|   | Cell Broadcast(GSM) - ME does<br>not display message              | R99          | 1.1                     | C201                | C201                | C201                | C201                | C201                | C201                | C201                | C201                | C201                | E.1/3                | System<br>Simulator<br>only         |              |   |
|   | void  |              | 1.2                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                      |                                     |              |   |
|   | Cell Broadcast(GSM) - ME<br>displays message                      | R99          | 1.3                     | C201<br>AND<br>C177 | C201<br>AND<br>C177 | C201<br>AND<br>C177 | C201<br>AND<br>C177 | C201<br>AND<br>C177 | C201<br>AND<br>C177 | C201<br>AND<br>C177 | C201<br>AND<br>C177 | C201<br>AND<br>C177 | E.1/3 AND<br>E.1/110 | System<br>Simulator<br>only         |              |   |
| Cell Broadcast (UTRAN) - ME<br>does not display message | Rel-5   | 1.4          |                         |                     |                     |                     |                     |                     |                     |                     |                     |                     | E.1/3                | UMTS<br>System<br>Simulator<br>only |              |   |
| Cell Broadcast (UTRAN) -More<br>time                    | Rel-5   | 1.5          |                         |                     |                     |                     |                     |                     |                     |                     |                     |                     | E.1/3 AND<br>E.1/20  | UMTS<br>System<br>Simulator<br>only |              |   |
| Cell Broadcast(UTRAN) - ME<br>displays message          | Rel-5   | 1.6          |                         |                     |                     |                     |                     |                     |                     |                     |                     |                     | E.1/3                | UMTS<br>System<br>Simulator<br>only |              |   |
| Cell Broadcast(GSM) - More time<br>(UDH)                | R99   | 1.7          | C201                    | C201                | C201                | C201                | C201                | C201                | C201                | C201                | C201                | C201                | E.1/3 AND<br>E.1/20  | System<br>Simulator<br>only         |              |   |
| 38A   | <b>SMS-PP DATA DOWNLOAD<br/>27.22.5.3</b>                         |              |                         |                     |                     |                     |                     |                     |                     |                     |                     |                     |                      |                                     |              |   |
|   | SMS-PP Data Download over IMS,<br>E-UTRAN                         | Rel-8        | 3.1                     |                     |                     |                     |                     |                     | C198                | C198                | C198                | C198                | E.1/2                | E-USS<br>only                       |              | TCEP001                                     |
|   | SMS-PP Data Download over IMS,<br>UTRAN                           | Rel-7        | 3.2                     |                     |                     |                     |                     | C199                | C199                | C199                | C199                | C199                | E.1/2                | UMTS<br>System<br>Simulator<br>only |              | TCEP001                                     |
| 38B   | <b>SMS-PP DATA DOWNLOAD over<br/>SGs in E-UTRAN<br/>27.22.5.4</b> |              |                         |                     |                     |                     |                     |                     |                     |                     |                     |                     |                      |                                     |              |   |
|   | SMS-PP Data Download over SGs,<br>E-UTRAN                         | Rel-8        | 4.1                     |                     |                     |                     |                     |                     | C205                | C205                | C205                | C205                | E.1/2                | E-USS<br>only                       |              | TCEP001                                     |
| 39  | <b>CALL CONTROL BY USIM<br/>27.22.6</b>                           |              |                         |                     |                     |                     |                     |                     |                     |                     |                     |                     |                      |                                     |              |   |



| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s)         | Rel<br>99<br>ME                                   | Rel-4<br>ME                                       | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME  | Rel-9<br>ME  | Rel-10<br>ME   | Rel-11<br>ME   | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|---------------------------------|---|---|---|---|---|--|--|--|--|--|---|--------------|---|
|      | Procedure for MO calls (Cell identity in envelope call control) | R99          | 1.1, 1.2, 1.4, 1.6, 1.8 to 1.14 | C180  | C180  | C180  | C180  | C180  | C180<br>AND<br>C183  | C180<br>AND<br>C183  | C180<br>AND<br>C183  | C180<br>AND<br>C183  | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 AND<br>E.1/29 AND<br>E.1/64                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Procedure for MO calls (Cell identity in envelope call control) | R99          | 1.3 A, 1.5 A, 1.7 A             | C140<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C140<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C140<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C140<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C140<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C140<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C140<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C140<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C140<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 AND<br>E.1/29 AND<br>E.1/64 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Procedure for MO calls (Cell identity in envelope call control) | R99          | 1.3 B, 1.7 B                    | C141<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C141<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C141<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C141<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C141<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C141<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C141<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C141<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C141<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 AND<br>E.1/29 AND<br>E.1/64 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Procedure for MO calls (Cell identity in envelope call control) | R99          | 1.5 B                           | C141<br>AND<br>C180                               | C141<br>AND<br>C180                               | C141<br>AND<br>C180                               | C141<br>AND<br>C180                               | C141<br>AND<br>C180                               | C141<br>AND<br>C180<br>AND<br>C183                               | C141<br>AND<br>C180<br>AND<br>C183                               | C141<br>AND<br>C180<br>AND<br>C183                               | C141<br>AND<br>C180<br>AND<br>C183                               | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 AND<br>E.1/29 AND<br>E.1/64                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Procedure for SS (Cell identity in envelope call control)       | R99          | 2.1, 2.2, 2.3, 2.4              | C174  | C174  | C174  | C174  | C174  | C174<br>AND<br>C183  | C174<br>AND<br>C183  | C174<br>AND<br>C183  | C174<br>AND<br>C183  | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 AND<br>E.1/64   | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Interaction with FDN (Cell identity in envelope call control)   | R99          | 3.1, 3.2, 3.3, 3.4, 3.5         | C146<br>AND<br>C180                               | C146<br>AND<br>C180                               | C146<br>AND<br>C180                               | C146<br>AND<br>C180                               | C146<br>AND<br>C180                               | C146<br>AND<br>C180<br>AND<br>C183                               | C146<br>AND<br>C180<br>AND<br>C183                               | C146<br>AND<br>C180<br>AND<br>C183                               | C146<br>AND<br>C180<br>AND<br>C183                               | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 AND<br>E.1/64   | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |

| Item | Description   | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME                                   | Rel-4<br>ME                                       | Rel-5<br>ME                                       | Rel-6<br>ME                                       | Rel-7<br>ME                                       | Rel-8<br>ME  | Rel-9<br>ME  | Rel-<br>10<br>ME   | Rel-<br>11<br>ME   | Terminal<br>Profile  | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|---|--------------|-------------------------|---|---|---|---|---|--|--|--|--|--|---|--------------|---|
|      | BDN service enabled   | R99          | 4.1                     | C147<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C147<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C147<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C147<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C147<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180 | C147<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C147<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C147<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | C147<br>AND<br>C177<br>AND<br>C178<br>AND<br>C180<br>AND<br>C183 | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 AND<br>E.1/64 AND<br>E.1/110 AND<br>E.1/111 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | BDN service enabled, interaction<br>with emergency call codes, R99<br>only    | R99          | 4.2A                    | C147<br>AND<br>C180                               |   |   |   |   |  |  |  |  | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 AND<br>E.1/64                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | BDN service enabled, interaction<br>with emergency call codes, Rel-4+         | Rel-4        | 4.2B                    |   | C147<br>AND<br>C180                               | C147<br>AND<br>C180                               | C147<br>AND<br>C180                               | C147<br>AND<br>C180                               | C147<br>AND<br>C180<br>AND<br>C183                               | C147<br>AND<br>C180<br>AND<br>C183                               | C147<br>AND<br>C180<br>AND<br>C183                               | C147<br>AND<br>C180<br>AND<br>C183                               | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 ND<br>E.1/64                                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | FDN and BDN enabled, set up a<br>call in EFFDN, Allowed with<br>modifications | R99          | 4.3                     | C146<br>AND<br>C147<br>AND<br>C177<br>AND<br>C180 | C146<br>AND<br>C147<br>AND<br>C177<br>AND<br>C180 | C146<br>AND<br>C147<br>AND<br>C177<br>AND<br>C180 | C146<br>AND<br>C147<br>AND<br>C177<br>AND<br>C180 | C146<br>AND<br>C147<br>AND<br>C177<br>AND<br>C180 | C146<br>AND<br>C147<br>AND<br>C177<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C147<br>AND<br>C177<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C147<br>AND<br>C177<br>AND<br>C180<br>AND<br>C183 | C146<br>AND<br>C147<br>AND<br>C177<br>AND<br>C180<br>AND<br>C183 | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 AND<br>E.1/64 AND<br>E.1/110                | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Call control on GPRS  | Rel-5        | TBD                     |   |   |   |   |   |  |  |  |  | E.1/98 AND<br>E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13                               | TBD   |              |   |
|      | BDN service enabled, ME not<br>supporting BDN                                 | R99          | 5.1                     |   |   | C176<br>AND<br>C180                               | C176<br>AND<br>C180                               | C176<br>AND<br>C180                               | C176<br>AND<br>C180<br>AND<br>C183                               | C176<br>AND<br>C180<br>AND<br>C183                               | C176<br>AND<br>C180<br>AND<br>C183                               | C176<br>AND<br>C180<br>AND<br>C183                               | E.1/7 AND<br>E.1/8 AND<br>E.1/10 AND<br>E.1/11 AND<br>E.1/13 AND<br>E.1/64                               | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |

| Item      | Description  | Re-lease | Test sequence (s) | Rel 99 ME              | Rel-4 ME               | Rel-5 ME               | Rel-6 ME               | Rel-7 ME               | Rel-8 ME               | Rel-9 ME               | Rel-10 ME              | Rel-11 ME              | Terminal Profile                                     | Network Dependency                             | Support | Additional test case execution parameter |
|-----------|--|----------|-------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--|--|---------|--|
|           | Call Control for EPS PDN connection activation, allowed without modification | Rel-8    | TBD               |                        |                        |                        |                        |                        |                        |                        |                        |                        |  | TBD  |         |  |
|           | Call Control for EPS PDN connection activation, allowed with modification    | Rel-8    | TBD               |                        |                        |                        |                        |                        |                        |                        |                        |                        |  | TBD  |         |  |
|           | Call Control for EPS PDN connection activation, rejected                     | Rel-8    | TBD               |                        |                        |                        |                        |                        |                        |                        |                        |                        |  | TBD  |         |  |
| <b>40</b> | <b>EVENT DOWNLOAD 27.22.7</b>  |          |                   |                        |                        |                        |                        |                        |                        |                        |                        |                        |  |  |         |  |
|           | 27.22.7.1: MT call event   | R99      | 1.1               | C180                   | C180                   | C180                   | C180                   | C180                   | C180 AND C183          | C180 AND C183          | C180 AND C183          | C180 AND C183          | E.1/34 AND E.1/33                                    | UMTS System Simulator or System Simulator only |         |  |
|           | 27.22.7.2.1: call connected event  | R99      | 1.1               | C180                   | C180                   | C180                   | C180                   | C180                   | C180 AND C183          | C180 AND C183          | C180 AND C183          | C180 AND C183          | E.1/35 AND E.1/33                                    | UMTS System Simulator or System Simulator only |         |  |
|           | 27.22.7.2.2: ME supporting SET UP CALL                                       | R99      | 2.1               | C177 AND C178 AND C180 | C177 AND C178 AND C180 | C177 AND C178 AND C180 | C177 AND C178 AND C180 | C177 AND C178 AND C180 | C177 AND C178 AND C180 | C177 AND C178 AND C180 | C177 AND C178 AND C180 | C177 AND C178 AND C180 | E.1/35 AND E.1/29 AND E.1/33 AND E.1/110 AND E.1/111 | UMTS System Simulator or System Simulator only |         |  |
|           | 27.22.7.3: call disconnected event   | R99      | 1.1               | C180                   | C180                   | C180                   | C180                   | C180                   | C180 AND C183          | C180 AND C183          | C180 AND C183          | C180 AND C183          | E.1/36 AND E.1/33                                    | UMTS System Simulator or System Simulator only |         |  |
|           | 27.22.7.4: location status event   | R99      | 1.1               | M                      | M                      | M                      | M                      | M                      | M                      | M                      | M                      | M                      | E.1/37 AND E.1/33                                    | UMTS System Simulator or System Simulator only |         | AER002                                   |
|           | 27.22.7.4: location status event, E-UTRAN                                    | Rel-8    | 1.2               |                        |                        |                        |                        |                        | C190                   | C190                   | C190                   | C190                   | E.1/37 AND E.1/33 AND E.1/135                        | E-USS only                                     |         |  |

| Item | Description                                 | Release | Test sequence (s) | Rel 99 ME              | Rel-4 ME               | Rel-5 ME               | Rel-6 ME               | Rel-7 ME               | Rel-8 ME               | Rel-9 ME               | Rel-10 ME              | Rel-11 ME              | Terminal Profile                          | Network Dependency                             | Support | Additional test case execution parameter |
|------|---|---------|-------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---|--|---------|--|
|      | 27.22.7.5: user activity event              | R99     | 1.1               | C178                   | C178                   | C178                   | C178                   | C178                   | C178                   | C178                   | C178                   | C178                   | E.1/38 AND E.1/33 AND E.1/111             | No   |         |  |
|      | 27.22.7.6: idle screen available event      | R99     | 1.1               | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | C177 AND C178          | E.1/39 AND E.1/33 AND E.1/110 AND E.1/111 | Yes  |         |  |
|      | 27.22.7.7.1: Card reader status normal      | R99     | 1.1               | C109                   | C109                   | C109                   | C109                   | C109                   | C109                   | C109                   | C109                   | C109                   | E.1/40 AND E.1/33                         | No   |         |  |
|      | 27.22.7.7.2: Detachable card reader         | R99     | 2.1               | C116                   | C116                   | C116                   | C116                   | C116                   | C116                   | C116                   | C116                   | C116                   | E.1/40 AND E.1/33                         | No   |         |  |
|      | 27.22.7.8: language selection event         | R99     | 1.1               | C177 AND C178 AND C181 | C177 AND C178 AND C181 | C177 AND C178 AND C181 | C177 AND C178 AND C181 | C177 AND C178 AND C181 | C177 AND C178 AND C181 | C177 AND C178 AND C181 | C177 AND C178 AND C181 | C177 AND C178 AND C181 | E.1/41 AND E.1/33 AND E.1/110 AND E.1/111 | No   |         |  |
|      | 27.22.7.9: Browser termination event        | R99     | 1.1               | C193 AND C177 AND C178 | C193 AND C177 AND C178 | C193 AND C177 AND C178 | C193 AND C177 AND C178 | C193 AND C177 AND C178 | C193 AND C177 AND C178 | C193 AND C177 AND C178 | C193 AND C177 AND C178 | C193 AND C177 AND C178 | E.1/42 AND E.1/33 AND E.1/110 AND E.1/111 | Yes  |         |  |
|      | 27.22.7.10: Data available event            | R99     | 1.1               | C121                   | C121                   | C121                   | C121                   | C121                   | C121 AND C183          | C121 AND C183          | C121 AND C183          | C121 AND C183          | E.1/43 AND E.1/89 AND E.1/92 AND E.1/33   | UMTS System Simulator or System Simulator only |         |  |
|      | 27.22.7.11: Channel status event            | R99     | 1.1               | C121                   | C121                   | C121                   | C121                   | C121                   | C121 AND C183          | C121 AND C183          | C121 AND C183          | C121 AND C183          | E.1/44 AND E.1/89 AND E.1/33              | UMTS System Simulator or System Simulator only |         |  |
|      | 27.22.7.12: Access Technology change event  |         |                   |                        |                        |                        |                        |                        |                        |                        |                        |                        |   |  |         |  |
|      | Single access technology                    | Rel-8   | 1.1               |                        |                        |                        |                        |                        | C184 AND C190          | C184 AND C190          | C184 AND C190          | C184 AND C190          | E.1/45 AND E.1/33                         | UMTS System Simulator and E-USS                |         |  |
|      | Multiple access technologies                | Rel-8   | TBD               |                        |                        |                        |                        |                        | C184 AND C190          | C184 AND C190          | C184 AND C190          | C184 AND C190          | E.1/45 AND E.1/33 AND E.1/200             | TBD  |         |  |
|      | 27.22.7.13: Display parameter changed event | Rel-4   | TBD               |                        |                        |                        |                        |                        |                        |                        |                        |                        | E.1/46 AND E.1/33                         | TBD  |         |  |

| Item      | Description   | Release | Test sequence (s) | Rel 99 ME | Rel-4 ME | Rel-5 ME | Rel-6 ME | Rel-7 ME | Rel-8 ME | Rel-9 ME | Rel-10 ME | Rel-11 ME | Terminal Profile  | Network Dependency                             | Support | Additional test case execution parameter |
|-----------|---|---------|-------------------|-----------|----------|----------|----------|----------|----------|----------|-----------|-----------|---|--|---------|--|
|           | 27.22.7.14: Local connection event  | Rel-4   | TBD               |           |          |          |          |          |          |          |           |           | E.1/47 AND E.1/33   | TBD  |         |  |
|           | 27.22.7.15: Network search mode change event  | Rel-6   | 1.1               |           |          |          |          |          |          | M        | M         | M         | E.1/48 AND E.1/33   | No   |         |  |
|           | 27.22.7.16: Browsing status event   | Rel-6   | TBD               |           |          |          |          |          |          |          |           |           | E.1/193 AND E.1/33  | TBD  |         |  |
|           | 27.22.7.17: Network Rejection Event, ATTACH REJECT  | Rel-8   | 1.1               |           |          |          |          |          | C190     | C190     | C190      | C190      | E.1/33 AND E.197  | E-USS only                                     |         |  |
|           | 27.22.7.17: Network Rejection Event, TRACKING AREA UPDATE REJECT  | Rel-8   | 1.2               |           |          |          |          |          | C190     | C190     | C190      | C190      | E.1/33 AND E.197  | E-USS only                                     |         |  |
|           | Frame information changed event   | Rel-6   | TBD               |           |          |          |          |          |          |          |           |           | E.1/195 AND E.1/177 AND E.1/178   | TBD  |         |  |
|           | 27.22.7.18: CSG cell Selection  | Rel-9   | 1.1               |           |          |          |          |          |          | C200     | C200      | C200      | E.1/201   | E-USS only                                     |         |  |
|           | 27.22.7.19 : IMS registration event (Refer to 27.22.4.27.7 and 27.22.7.20)                              | Rel-10  | -                 |           |          |          |          |          |          |          |           |           | -   | -  |         |  |
|           | 27.22.7.20 : Incoming IMS data, IMS Registration and Data available event, IARI list stored on the ISIM | Rel-10  | 1.1               |           |          |          |          |          |          |          | C208      | C208      | E.1/33 AND E.1/43 AND E.1/89 AND E.1/91 AND E.1/246 AND E.1.247 AND E.1/249 | UMTS System Simulator OR E-USS                 |         |  |
| <b>41</b> | <b>MO SMS Control by USIM 27.22.8</b>   |         |                   |           |          |          |          |          |          |          |           |           |   |  |         |  |
|           | With proactive command, Allowed , no modification   | R99     | 1.1               | M         | M        | M        | M        | M        | C183     | C183     | C183      | C183      | E1/12 AND E.1/26 AND E.1/110  | UMTS System Simulator or System Simulator only |         | TCEP001                                  |
|           | With user SMS, Allowed , no modification  | R99     | 1.2               | M         | M        | M        | M        | M        | C183     | C183     | C183      | C183      | E1/12   | UMTS System Simulator or System Simulator only |         |  |

| Item | Description  | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME | Rel-6<br>ME | Rel-7<br>ME | Rel-8<br>ME | Rel-9<br>ME | Rel-10<br>ME | Rel-11<br>ME | Terminal<br>Profile                | Network<br>Dependen-<br>cy                                    | Sup-<br>port | Additional test case<br>execution parameter |
|------|--|--------------|-------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|------------------------------------|---|--------------|---|
|      | With proactive command, Not allowed  | R99          | 1.3                     | M               | M           | M           | M           | M           | C183        | C183        | C183         | C183         | E1/12 AND<br>E.1/26 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | With user SMS, Not allowed   | R99          | 1.4                     | M               | M           | M           | M           | M           | M           | M           | M            | M            | E1/12                              | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | With proactive command, Allowed, with modifications  | R99          | 1.5                     | M               | M           | M           | M           | M           | C183        | C183        | C183         | C183         | E1/12 AND<br>E.1/26 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | With user SMS, Allowed, with modifications   | R99          | 1.6                     | M               | M           | M           | M           | M           | C183        | C183        | C183         | C183         | E1/12                              | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | With Proactive command, the USIM responds with '90 00', Allowed, no modification             | R99          | 1.7                     | M               | M           | M           | M           | M           | C183        | C183        | C183         | C183         | E1/12 AND<br>E.1/26 AND<br>E.1/110 | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              | TCEP001                                     |
|      | Send Short Message attempt by user, the USIM responds with '90 00', Allowed, no modification | R99          | 1.8                     | M               | M           | M           | M           | M           | C183        | C183        | C183         | C183         | E1/12                              | UMTS<br>System<br>Simulator<br>or System<br>Simulator<br>only |              |   |
|      | Void   |              | 1.9                     |                 |             |             |             |             |             |             |              |              |                                    |   |              |   |
| 42   | <b>SERVICE SEARCH</b>  | Rel-4        | TBD                     |                 |             |             |             |             |             |             |              |              | E.1/94                             | TBD   |              |   |
| 43   | <b>GET SERVICE INFORMATION</b>   | Rel-4        | TBD                     |                 |             |             |             |             |             |             |              |              | E.1/95                             | TBD   |              |   |
| 44   | <b>DECLARE SERVICE</b>   | Rel-4        | TBD                     |                 |             |             |             |             |             |             |              |              | E.1/96                             | TBD   |              |   |
| 45   | <b>RETRIEVE MULTIMEDIA MESSAGE</b>   | Rel-6        | TBD                     |                 |             |             |             |             |             |             |              |              | E.1/173                            | TBD   |              |   |
| 46   | <b>SUBMIT MULTIMEDIA MESSAGE</b>   | Rel-6        | TBD                     |                 |             |             |             |             |             |             |              |              | E.1/173                            | TBD   |              |   |

| Item | Description                           | Re-<br>lease | Test<br>sequence<br>(s) | Rel<br>99<br>ME | Rel-4<br>ME | Rel-5<br>ME | Rel-6<br>ME | Rel-7<br>ME | Rel-8<br>ME | Rel-9<br>ME | Rel-<br>10<br>ME | Rel-<br>11<br>ME | Terminal<br>Profile      | Network<br>Dependen<br>cy | Sup-<br>port | Additional test case<br>execution parameter |
|------|---------------------------------------|--------------|-------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|------------------|--------------------------|---------------------------|--------------|---|
| 47   | DISPLAY MULTIMEDIA<br>MESSAGE         | Rel-6        | TBD                     |                 |             |             |             |             |             |             |                  |                  | E.1/173                  | TBD                       |              |   |
| 48   | SET FRAMES                            | Rel-6        | TBD                     |                 |             |             |             |             |             |             |                  |                  | E.1/177 AND<br>E.1/178   | TBD                       |              |   |
| 49   | GET FRAME STATUS                      | Rel-6        | TBD                     |                 |             |             |             |             |             |             |                  |                  | E.1/178 AND<br>E.1/177   | TBD                       |              |   |
| 50   | Handling of command number<br>27.22.9 |              |                         |                 |             |             |             |             |             |             |                  |                  |                          |                           |              |   |
|      | DISPLAY TEXT normal priority          | R99          | 1.1                     | C177            | C177        | C177        | C177        | C177        | C177        | C177        | C177             | C177             | E.1/17<br>AND<br>E.1/110 | No                        |              |   |
|      |                                       |              |                         |                 |             |             |             |             |             |             |                  |                  |                          |                           |              |   |

|      |  |                                     |
|------|--|-------------------------------------|
| C101 | IF A.1/1 THEN M ELSE N/A   | -- O_Cap_Conf                       |
| C102 | IF A.1/16 THEN M ELSE N/A  | -- O_GPRS                           |
| C103 | void   |                                     |
| C104 | IF A.1/2 THEN M ELSE N/A   | -- O_Sust_text                      |
| C105 | IF A.1/3 AND A.1/41 THEN M ELSE N/A  | -- O_Ucs2_Entry AND O_UCS2_Cyrillic |
| C106 | IF A.1/4 THEN M ELSE N/A   | -- O_Ext_Str                        |
| C107 | IF A.1/5 THEN M ELSE N/A   | -- O_Help                           |
| C108 | IF A.1/6 THEN O.1 ELSE N/A   | -- O_Icons                          |
| C109 | IF A.1/7 THEN M ELSE N/A   | -- O_Dual_Slot                      |
| C110 | IF A.1/9 AND A.1/46 THEN M ELSE N/A  | -- O_Run_At AND O_+CIMI             |
| C111 | IF (A.1/10 OR E.1/71) THEN M ELSE N/A  | -- O_LB                             |
| C112 | IF A.1/11 THEN M ELSE N/A  | -- O_Soft_key                       |
| C113 | void   |                                     |
| C114 | IF C110 AND C108 THEN O.1 ELSE N/A   | -- O_Run_At AND O_+CIMI AND O_Icons |
| C115 | IF C111 AND C108 THEN M ELSE N/A   | -- O_LB AND O_Icons                 |
| C116 | IF A.1/7 AND A.1/8 THEN M ELSE N/A   | -- O_Dual_Slot AND O_Detach_Rdr     |
| C117 | void   |                                     |
| C118 | IF A.1/15 AND A.1/41 THEN M ELSE N/A   | -- O_Ucs2_Disp AND O_UCS2_Cyrillic  |
| C119 | IF A.1/19 THEN M ELSE N/A  | -- O_Redial                         |
| C120 | IF A.1/20 THEN M ELSE N/A  | -- O_D_NoResp                       |
| C121 | IF A.1/21 AND A.1/17 THEN M ELSE N/A   | -- O_BIP_GPRS AND O_UDP             |
| C122 | IF C111 AND A.1/16 THEN M ELSE N/A   | -- O_LB AND O_GPRS                  |
| C123 | void   |                                     |
| C124 | IF A.1/22, test x.A M ELSE x.B M (where x is the expected sequence number value) | -- O_CP_Subaddr                     |
| C125 | IF A.1/23 THEN M ELSE N/A  | -- O_Imm_Resp                       |
| C126 | IF A.1/24 THEN M ELSE N/A  | -- O_Duration                       |
| C127 | void   |                                     |
| C128 | void   |                                     |
| C129 | void   |                                     |
| C130 | void   |                                     |
| C131 | void   |                                     |
| C132 | IF A.1/27 THEN M ELSE N/A  | -- O_BIP_Local                      |
| C133 | IF A.1/37 THEN M ELSE N/A  | -- O_Frames                         |
| C134 | IF A.1/38 THEN M ELSE N/A  | -- O_MMS                            |
| C135 | IF C110 AND C133 THEN M ELSE N/A   | -- O_Run_At AND O_Frames            |
| C136 | IF C111 AND C133 THEN M ELSE N/A   | -- O_LB AND O_Frames                |
| C137 | IF A.1/12 AND C133 THEN M ELSE N/A   | -- O_BIP AND O_Frames               |
| C138 | IF A.1/82 THEN M ELSE N/A  | -- O_M_T_Tones                      |
| C139 | IF A.1/35 THEN M ELSE N/A  | -- O_Batt                           |
| C140 | IF A.1/39 THEN M ELSE N/A  | -- O_UC_Before_EnvCC                |
| C141 | IF A.1/40 THEN M ELSE N/A  | -- O_UC_After_EnvCC                 |
| C142 | IF A.1/3 AND A.1/42 THEN M ELSE N/A  | -- O_UCS2_Entry AND O_UCS2_Chinese  |
| C143 | IF A.1/15 AND A.1/42 THEN M ELSE N/A   | -- O_UCS2_Disp AND O_UCS2_Chinese   |
| C144 | IF A.1/3 AND A.1/43 THEN M ELSE N/A  | -- O_UCS2_Entry AND O_UCS2_Katakana |



|      |   |   |
|------|---|---|
| C145 | IF A.1/15 AND A.1/43 THEN M ELSE N/A  | -- O_UCS2_Dispatch AND O_UCS2_Katakana  |
| C146 | IF A.1/45 THEN M ELSE N/A   | -- O_FDN  |
| C147 | IF A.1/44 THEN M ELSE N/A   | -- O_BDN  |
| C148 | IF (A.1/9 AND A.1/47) THEN M ELSE N/A   | -- O_Run_At AND O_+CGMI   |
| C149 | IF C148 AND C118 THEN M ELSE N/A  | -- O_Run_At AND O_+CGMI AND O_O_Ucs2_Dispatch AND O_Ucs2_Cyrillic   |
| C150 | IF C148 AND C143 THEN M ELSE N/A  | -- O_Run_At AND O_+CGMI AND O_O_Ucs2_Dispatch AND O_Ucs2_Chinese  |
| C151 | IF C148 AND C145 THEN M ELSE N/A  | -- O_Run_At AND O_+CGMI AND O_O_Ucs2_Dispatch AND O_Ucs2_Katakana   |
| C152 | IF C121 AND A.1/49 THEN M ELSE N/A  | -- O_BIP_GPRS AND O_UDP AND O_BUFFER_SIZE   |
| C153 | IF A.1/50 THEN M ELSE N/A   | -- O_TAT_AL   |
| C154 | IF A.1/51 THEN M ELSE N/A   | -- O_TAT_AC   |
| C155 | IF A.1/52 THEN M ELSE N/A   | -- O_TAT_AR   |
| C156 | IF A.1/53 THEN M ELSE N/A   | -- O_TAT_FSN  |
| C157 | IF A.1/54 THEN M ELSE N/A   | -- O_TAT_FSL  |
| C158 | IF A.1/55 THEN M ELSE N/A   | -- O_TAT_FSS  |
| C159 | IF A.1/56 THEN M ELSE N/A   | -- O_TAT_SN   |
| C160 | IF A.1/57 THEN M ELSE N/A   | -- O_TAT_SB   |
| C161 | IF A.1/58 THEN M ELSE N/A   | -- O_TAT_SI   |
| C162 | IF A.1/59 THEN M ELSE N/A   | -- O_TAT_SU   |
| C163 | IF A.1/60 THEN M ELSE N/A   | -- O_TAT_SS   |
| C164 | IF A.1/61 THEN M ELSE N/A   | -- O_TAT_STFC   |
| C165 | IF A.1/62 THEN M ELSE N/A   | -- O_TAT_STBC   |
| C166 | IF A.1/63 THEN test step option n.A M ELSE test step option n.B M                     | -- O_longFTN  |
| C167 | IF A.1/64 THEN M ELSE N/A   | -- O_GERAN  |
| C168 | IF A.1/65 THEN M ELSE N/A   | -- O_Global_PB  |
| C169 | IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A | -- (O_BIP_GPRS AND O_UDP AND O_User_Confirm_Before_PDP_Context_Request) OR (O_BIP_GPRS AND O_UDP AND NOT O_User_Confirm_Before_PDP_Context_Request) |
| C170 | IF A.1/69 THEN M ELSE N/A   | -- O_Serv_SS_HOLD   |
| C171 | IF A.1/6 THEN O.2 ELSE N/A  | -- O_Icons  |
| C172 | IF A.1/6 THEN O.4 ELSE N/A  | -- O_Icons  |
| C173 | IF C110 AND A.1/6 THEN O.2 ELSE N/A   | -- O_Run_At AND O_+CIMI AND O_Icons   |
| C174 | IF A.1/78 AND A.1/79 THEN M ELSE N/A  | -- O_AddInfo_SS AND O_Serv_SS_CFU   |
| C175 | IF A.1/78 AND A.1/80 THEN M ELSE N/A  | -- O_AddInfo_SS AND O_Serv_SS_CLIR  |
| C176 | IF A.1/44 THEN N/A ELSE M   | -- O_BDN  |
| C177 | IF A.1/84 THEN M ELSE N/A   | -- O_No_Type_ND   |
| C178 | IF A.1/85 THEN M ELSE N/A   | -- O_No_Type_NK   |
| C179 | IF A.1/86 THEN M ELSE N/A   | -- O_No_Type_NA   |
| C180 | IF A.1/87 THEN M ELSE N/A   | -- O_No_Type_NS   |
| C181 | IF A.1/88 THEN M ELSE N/A   | -- O_No_Type_NL   |
| C182 | IF A.1/18 AND (A.1/132 OR A.1/133) THEN M ELSE N/A                                    | -- O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD)   |
| C183 | IF ((NOT A.1/135) AND (A.1/64 OR A.1/134) THEN M ELSE                                 | -- NOT (O_EUTRAN_NO_UTRAN_NO_GERAN) AND (O_GERAN  |

|         |   |  |
|---------|---|--|
|         | N/A   | OR O_UTRAN)  |
| C184    | IF A.1/134 THEN M ELSE N/A  | -- O_UTRAN   |
| C185    | IF A.1/6 AND A.1/111 THEN M ELSE N/A  | -- O_Icons AND O_Icon_Rec1_Send_SS   |
| C186    | IF A.1/6 AND A.1/115 THEN M ELSE N/A  | -- O_Icons AND O_Icon_Rec2_Send_USSD   |
| C187    | IF A.1/6 AND A.1/114 THEN M ELSE N/A  | -- O_Icons AND O_Icon_Rec1_Send_USSD   |
| C188    | IF A.1/6 AND A.1/120 THEN M ELSE N/A  | -- O_Icons AND O_Icon_Rec1_Set_Up_Idle_Mode_Text   |
| C189    | IF C110 AND A.1/6 AND A.1/123 THEN M ELSE N/A   | -- O_Run_At AND O_+CIMI AND O_Icons AND<br>O_Icon_Rec1_Run_AT_Cmd                                |
| C190    | IF (A.1/139 OR A.1/140) THEN M ELSE N/A   | -- pc_eTDD OR pc_eFDD  |
| C191    | IF A.1/21 AND A.1/18 THEN M ELSE N/A  | -- O_BIP_GPRS AND O_TCP  |
| C192    | IF (A.1/21 AND A.1/18 AND A.1/72) THEN M ELSE N/A   | -- O_BIP_GPRS AND O_TCP AND O_BIP_UICCServer   |
| C193    | IF (A.1/10 OR (E.1/71 AND E.1/42)) THEN M ELSE N/A  | -- O_LB  |
| C194    | IF A.1/138 THEN M ELSE N/A  | -- O_Select_Item_Default_Item  |
| C195    | IF A.1/137 THEN M ELSE N/A  | -- O_CSG_Cell_Discovery  |
| C196    | IF (A.1/142 AND (A.1/139 OR A.1/140)) THEN M ELSE N/A   | -- O_pc_MO_SM-over-IMS AND (pc_eFDD OR pc_eTDD)  |
| C197    | IF (A.1/142 AND A.1/134) THEN M ELSE N/A  | -- O_pc_MO_SM-over-IMS AND O_UTRAN   |
| C198    | IF (A.1/141 AND (A.1/139 OR A.1/140)) THEN M ELSE N/A   | -- O_pc_SM-over-IP-receiver AND (pc_eFDD OR pc_eTDD)   |
| C199    | IF (A.1/141 AND A.1/134) THEN M ELSE N/A  | -- O_pc_SM-over-IP-receiver AND O_UTRAN  |
| C200    | IF A.1/136 THEN M ELSE N/A  | -- O_Event_CSG_Cell_Selection  |
| C201    | IF (A.1/64 AND A.1/149) THEN M ELSE N/A   | -- O_GERAN AND O_SMS-CB_Data_Download  |
| C202    | IF ((A.1/139 OR A.1/140) AND A.1/150) THEN M ELSE N/A   | -- (pc_eFDD OR pc_eTDD) AND O_IMS  |
| C203    | IF (A.1/134 AND A.1/150) THEN M ELSE N/A  | -- O_UTRAN AND O_IMS   |
| C204    | IF A.1/151 THEN N/A ELSE M  | -- O_PS_OPMODE   |
| C205    | IF ((A.1/139 OR A.1/140) AND A.1/151) THEN M ELSE N/A   | -- (pc_eFDD OR pc_eTDD) AND O_SMS_SGs_MT   |
| C206    | IF ((A.1/139 OR A.1/140) AND A.1/152) THEN M ELSE N/A   | -- (pc_eFDD OR pc_eTDD) AND O_SMS_SGs_MO   |
| C207    | IF (A.1/147 AND A.1/148 AND A.1/150) THEN M ELSE O  | -- O_Event_IMS_Registration AND O_UICC_ACCESS_IMS AND<br>O_IMS                                   |
| C208    | IF (A.1/146 AND A.1/147 AND A.1/148 AND A.1/150) THEN<br>M ELSE N/A   | -- O_Event_Incoming_IMS_Data AND O_Event_IMS_Registration<br>AND O_UICC_ACCESS_IMS AND O_IMS AND |
| O.1     | IF A.1/zz tests x.yA M ELSE tests x.yB M (where zz corresponds to the option relating to the command being tested (e.g. A.1/90 if Display Text supports icons as defined in record 1 of EF(IMG)) and x.y is the expected sequence number value)   |  |
| O.2     | IF A.1/zz tests x.yA M ELSE tests x.yB M (where zz corresponds to the option relating to the command being tested (e.g. A.1/91 if Display Text supports icons as defined in record 2 of EF(IMG)) and x.y is the expected sequence number value)   |  |
| O.3     | void  |  |
| O.4     | IF A.1/zz AND A.1/ww tests x.yA M ELSE tests x.yB M (where zz and ww correspond to the option relating to the command being tested (e.g. A.1/90 if Display Text supports icons as defined in record 1 of EF(IMG) and A.1.92 if Display Text supports icons as defined in record 5 of EF(IMG) ) and x.y is the expected sequence number value) |  |
| TCEP001 | IF NOT A.1/84 THEN during the test execution, the display or the non-display of any alpha identifier, text string or icon shall be treated as successfully verified.  |  |
| TCEP002 | IF NOT A.1/85 THEN the terminal may open the channel without explicit confirmation by the user.   |  |
| AER001  | IF ((A.1/21 AND A.1/17) AND ((A.1/132 OR A.1/133) AND (A.1/134 OR A.1/64))) THEN R(27.22.4.27.6, Seq. 6.1) ELSE A   | -- (O_BIP_GPRS AND O_UDP) AND (O_BIP_eFDD OR O_BIP_eTDD) AND (O_UTRAN OR O_GERAN)                |
| AER002  | IF ( (A.1/132 OR A.1/133) AND (A.1/134 OR A.1/64)) THEN   | -- (pc_BIP_eFDD OR pc_BIP_eTDD) AND (O_UTRAN OR  |

|        |   |   |
|--------|---|---|
|        | R(27.22.7.4 Seq. 1.1) ELSE A  | O_GERAN)  |
| AER003 | IF ( (A.1/132 OR A.1/133) AND (A.1/134 OR A.1/64))) THEN R(27.22.4.15 Seq. 1.17) ELSE A                           | -- (pc_BIP_eFDD OR pc_BIP_eTDD) AND (O_UTRAN OR O_GERAN)                          |
| AER004 | IF ( (A.1/132 OR A.1/133) AND (A.1/134 OR A.1/64))) THEN R(27.22.4.15 Seq. 1.14) ELSE A                           | -- (pc_BIP_eFDD OR pc_BIP_eTDD) AND (O_UTRAN OR O_GERAN)                          |
| AER005 | IF ((A.1/21 AND A.1/17) AND ((A.1/132 OR A.1/133) AND (A.1/134 OR A.1/64))) THEN R(27.22.4.27.6, Seq. 6.4) ELSE A | -- (O_BIP_GPRS AND O_UDP) AND (O_BIP_eFDD OR O_BIP_eTDD) AND (O_UTRAN OR O_GERAN) |
| AER006 | IF ((A.1/21 AND A.1/17) AND ((A.1/132 OR A.1/133) AND (A.1/134 OR A.1/64))) THEN R(27.22.4.27.6, Seq. 6.3) ELSE A | -- (O_BIP_GPRS AND O_UDP) AND (O_BIP_eFDD OR O_BIP_eTDD) AND (O_UTRAN OR O_GERAN) |
| AER007 | IF ((A.1/21 AND A.1/17) AND ((A.1/132 OR A.1/133) AND (A.1/134 OR A.1/64))) THEN R(27.22.4.27.6, Seq. 6.5) ELSE A | -- (O_BIP_GPRS AND O_UDP) AND (O_BIP_eFDD OR O_BIP_eTDD) AND (O_UTRAN OR O_GERAN) |
| AER008 | IF ((A.1/21 AND A.1/17) AND ((A.1/132 OR A.1/133) AND (A.1/134 OR A.1/64))) THEN R(27.22.4.29, Seq. 1.2) ELSE A   | -- (O_BIP_GPRS AND O_UDP) AND (O_BIP_eFDD OR O_BIP_eTDD) AND (O_UTRAN OR O_GERAN) |
|        |   |   |

## 3.5 Conventions for mathematical notations

The conventions for mathematical notations specified below shall apply.

### 3.5.1 Mathematical signs

The "plus or minus" sign is expressed by " $\pm$ ".

The sign "multiplied by" is expressed by "\*".

The sign "divided by" is expressed by "/", or the common division bar.

The sign "greater than or equal to" is expressed by " $\geq$ ".

The sign "less than or equal to" is expressed by " $\leq$ ".

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## 4 Test equipment

The test equipment is specified in TS 34.108 [12] clause 4.

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## 5 Testing methodology in general

When possible the present document refers to ETSI TS 102 384 [26] to describe generic aspects of application toolkit tests.

### 5.1 Testing of optional functions and procedures

Any function or procedure which is optional, as indicated in the present document, may be subject to a conformance test if it is implemented in the ME.

### 5.2 Test interfaces and facilities

The UICC and E-USS/USS/SS interfaces provide the main test interfaces for the purpose of performing conformance tests.

The tests which require a network simulator shall be carried out with using an Evolved Universal System Simulator when accessing an E-UTRAN, a Universal System Simulator when accessing a UTRAN, and if these tests have to be performed additionally when accessing a GERAN a System Simulator shall be used instead.

### 5.3 Information to be provided by the apparatus supplier

The information to be provided by the apparatus supplier specified in TS 36.523-2 [34], TS 36.508 [33], TS 34.108 [12] and TS 51.010-1 [23] shall apply, unless otherwise specified in the present clause.

In addition, the apparatus supplier shall provide the information with respect to the Supported Option table A.1 and to ME's default configuration table A.2.

Table A.2: ME"s default configuration

| Item | Description  | Value | Status |
|------|--|-------|--------|
| 1    | DISPLAY TEXT: No Response from user timeout interval                       |       | C      |
| 2    | GET INKEY: No response from user Timeout interval                          |       | C      |
| 3    | GET INPUT: No response from user Timeout interval                          |       | C      |
| 4    | SELECT ITEM: No response from user Timeout interval                        |       | C      |
| 5    | DISPLAY TEXT Text Attributes Alignment [Left or Center or Right]           |       | C      |
| 6    | GET INKEY Text Attributes Alignment [Left or Center or Right]              |       | C      |
| 7    | GET IMPUT Text Attributes Alignment [Left or Center or Right]              |       | C      |
| 8    | PLAY TONE Text Attributes Alignment [Left or Center or Right]              |       | C      |
| 9    | SET UP MENU Text Attributes Alignment [Left or Center or Right]            |       | C      |
| 10   | SELECT ITEM Text Attributes Alignment [Left or Center or Right]            |       | C      |
| 11   | SEND SHORT MESSAGE Text Attributes Alignment [Left or Center or Right]     |       | C      |
| 12   | SEND SS Text Attributes Alignment [Left or Center or Right]                |       | C      |
| 13   | SEND USSD Text Attributes Alignment [Left or Center or Right]              |       | C      |
| 14   | SET UP CALL Text Attributes Alignment [Left or Center or Right]            |       | C      |
| 15   | SET UP IDLE MODE TEXT Text Attributes Alignment [Left or Center or Right]  |       | C      |
| 16   | RUN AT Text Attributes Alignment [Left or Center or Right]                 |       | C      |
| 17   | SEND DTMF Text Attributes Alignment [Left or Center or Right]              |       | C      |
| 18   | LAUNCH BROWSER Text Attributes Alignment [Left or Center or Right]         |       | C      |
| 19   | OPEN CHANNEL Text Attributes Alignment [Left or Center or Right]           |       | C      |
| 20   | CLOSE CHANNEL Text Attributes Alignment [Left or Center or Right]          |       | C      |
| 21   | RECEIVE DATA Text Attributes Alignment [Left or Center or Right]           |       | C      |
| 22   | SEND DATA Text Attributes Alignment [Left or Center or Right]              |       | C      |
| 23   | IMEI   |       | M      |
| 24   | IMEISV   |       | C      |
| 25   | [Reserved]   |       |        |
| 26   | Additional Card Reader Id  |       | C      |
| 27   | Channel Id   |       | C      |
| 28   | Manufacturer identification as implemented according to TS 27.007, cl. 5.1 |       | C      |
| 29   | Preferred buffer size supported by the terminal for Open Channel command   |       | C      |

Note : Conditional values shall be provided if the corresponding option is supported in the table A.1

## 6 Implicit testing

For some 3GPP features conformance is not verified explicitly in the present document. This does not imply that correct functioning of these features is not essential, but that these are implicitly tested to a sufficient degree in other tests.

It should be noted that for these features some aspects have to be and are explicitly tested, e.g. the ability to switch between 1.8v and 3v operation.

Some UICC features will be explicitly tested as result of other tests. These should be identified for the following reason:

- To identify the areas of overlap and thus provide a more efficient testing.

## 7 Measurement uncertainty

The measured value relating to the corresponding limit shall be used to determine whether or not a terminal equipment meets the requirement. (ETR 028, annex B).

This process is often referred to as "shared risk".

## 8 Format of tests

In general the following basic format for tests is used:

**27.22.X.X. Tested command**

**27.22.X.X.1 Command tested in «environment #1" (NORMAL, ICONS, UCS2 ...)**

**27.22.X.X.1.1 Definition and applicability**

This clause refers back to clause 3.2.2.

**27.22.X.X.1.2 Conformance requirement**

Only if required, this clause details the necessary core specification references.

**27.22.X.X.1.3 Test purpose**

This clause details the purpose of the test.

**27.22.X.X.1.4 Method of test**

**27.22.X.X.1.4.1 Initial conditions**

If present this clause defines the initial conditions to be established before running each test sequence.

**27.22.X.X.1.4.2 Procedure**

This clause details the test procedure. Each test sequence shall be carried out independently unless otherwise stated.

- Sequence 1.1 (further initial conditions, added here)

|                                   |
|-----------------------------------|
| Command 1.1.1                     |
| TERMINAL RESPONSE1.1.1A or 1.1.1B |
| Command 1.1.2                     |
| TERMINAL RESPONSE1.1.2            |

PROACTIVE COMMAND 1.1.1

TERMINAL RESPONSE 1.1.1A

TERMINAL RESPONSE 1.1.1B

PROACTIVE COMMAND 1.1.2

TERMINAL RESPONSE 1.1.2

- Sequence 1.2

|  |
|--|
| Command 1.2.1  |
| TERMINAL RESPONSE 1.2.1                                  |
| Command 1.2.2  |
| TERMINAL RESPONSE1.2.2 (same as TERMINAL RESPONSE 1.2.1) |
| Command 1.2.3  |
| TERMINAL RESPONSE 1.2.3                                  |

PROACTIVE COMMAND 1.2.1

PROACTIVE COMMAND 1.2.2

PROACTIVE COMMAND 1.2.3

TERMINAL RESPONSE 1.2.1

TERMINAL RESPONSE 1.2.2

TERMINAL RESPONSE 1.2.3

- Sequence 1.3

|                        |
|------------------------|
| Command 1.3.1          |
| TERMINAL RESPONSE1.3.1 |

PROACTIVE COMMAND 1.3.1

TERMINAL RESPONSE 1.3.1

**27.22.X.X.1.5 Test requirement**

This clause details the conditions to be met for successful completion of the test.

**27.22.X.X.2 Command tested in "environment #2" (NORMAL, ICONS, UCS2 ...)**

**27.22.X.X. 2.1 Definition and applicability**

**27.22.X.X. 2.2 Conformance requirement**

**27.22.X.X. 2.3 Test purpose**

**27.22.X.X. 2.4 Method of test**

**27.22.X.X. 2.4.1.1 Initial conditions**

**27.22.X.X. 2.4.1.2 Procedure**

- Sequence 2.1

|                                   |
|-----------------------------------|
| Command 2.1.1                     |
| TERMINAL RESPONSE2.1.1A or 2.1.1B |
| Command 2.1.2                     |
| TERMINAL RESPONSE2.1.2            |

PROACTIVE COMMAND 2.1.1

TERMINAL RESPONSE 2.1.1A

TERMINAL RESPONSE 2.1.1B

PROACTIVE COMMAND 2.1.2

TERMINAL RESPONSE 2.1.2

- Sequence 2.2

|   |
|---|
| Command 2.2.1   |
| TERMINAL RESPONSE 2.2.1                                   |
| Command 2.2.2   |
| TERMINAL RESPONSE 2.2.2 (same as TERMINAL RESPONSE 2.2.1) |
| Command 2.2.3   |
| TERMINAL RESPONSE 2.2.3                                   |

PROACTIVE COMMAND 2.2.1

PROACTIVE COMMAND 2.2.2

PROACTIVE COMMAND 2.2.3

Coding TERMINAL RESPONSE 2.2.1

Coding TERMINAL RESPONSE 2.2.2

Coding TERMINAL RESPONSE 2.2.3

**27.22.X.X.2.5 Test requirement**

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## 9 Generic call set up procedures

The generic call set up procedure for PS and CS calls specified for GERAN and UTRAN shall apply.

For a ME accessing E-UTRAN the procedures defined in TS 36.508 [33] shall be the basis for all performed procedures during the test. The procedures in subclause 4.5 describe the default behaviour of a conformant ME regarding the specified protocols to be used for E-UTRAN and the required procedures from the NAS.

For a ME accessing UTRAN the call set up procedures specified in TS 34.108 [12] subclause 7.2.3.1.3 and 7.2.3.2.3 shall apply, for session setup the ones defined in 7.2.4.1.3 and 7.2.4.2.3, unless otherwise specified in the present clause.

For a ME accessing GERAN the call set up procedures specified in TS 51.010-1 [23] subclause 26.9 shall apply, for session setup the ones defined in 45.2 and 45.4, unless otherwise specified in the present clause.

---

## 10 - 26 Not used

---

## 27 Testing of the UICC/ME interface

This clause is an addition to TS 31.121 [21] to confirm the correct interpretation of the USIM Application Toolkit commands and the correct operation of the Toolkit facilities.

The definitions, declarations and default values specified in TS 31.121 [21] clause 4.1 shall apply, unless otherwise specified in the present clause.

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

The comprehension required flags in SIMPLE-TLV objects that are included in a TERMINAL RESPONSE or an ENVELOPE shall be set as described in TS 31.111 [15]. This means that in cases where it is up to the ME to decide if this flag is used or not, the corresponding Tag coding in the TERMINAL RESPONSEs and ENVELOPEs in this document represents only one of the two valid possibilities.

TS 31.111 [15] defines that in case of the general result "Command performed successfully" some proactive commands require additional information in the command result and in which cases this is mandatory or optional. Thus when additional information bytes are optional in the Result TLV, the additional information bytes of the Result TLV in the Terminal Responses shall be ignored.

### 27.1 - 27.21 Void

### 27.22 USIM Application Toolkit

#### 27.22.1A General Test purpose

Testing of functional conformance to USIM Application Toolkit commands, including proactive UICC commands.

All facilities given by the TERMINAL PROFILE as supported, for which tests exist in the present document, shall be tested.

Many of the proactive UICC commands include an alpha identifier data object. This is intended to be a short one or two word identifier for the ME to optionally display on the screen along with any other indications, at the same time as the ME performs the UICC command.



Note: The sequence of USIM Application Toolkit commands are specific to the Toolkit Application being executed within the UICC, hence sequential testing of commands is not possible. The testing will therefore have to be performed on a command by command basis.

## 27.22.2A Definition of default values for USIM Application Toolkit testing

A UICC containing the following default values is used for all tests of this clause unless otherwise stated.

For each item, the logical default values and the coding within the Elementary Files (EF) of the USIM follow, as defined in:

- TS 31.121 [21], clause 4.1.
- ETSI TS 102 384 [26], clause 27.22.1B.

Note 1: Bx represents byte x of the coding.

Note 2: Unless otherwise defined, the coding values in binary.

### EF<sub>UST</sub> (USIM Service Table)

Logically:

|                   |   |
|-------------------|---|
| (Service 01)      | Local Phone Book available                                    |
| (Service 02)      | Fixed dialling numbers available                              |
| (Service 06)      | Barred dialling numbers available                             |
| (Service 10)      | Short Message Storage available                               |
| (Service 11)      | Short Message Status Reports available                        |
| (Service 12)      | Short Message Service Parameters available                    |
| (Service 15)      | Cell Broadcast Message Identifier available                   |
| (Services 17, 18) | The Group Identifier level 1 and level 2 not available        |
| (Service 20)      | User controlled PLMN selector available                       |
| (Service 22)      | Image (IMG) available   |
| (Service 27)      | The GSM Access available                                      |
| (Service 28)      | Data download via SMS-PP available                            |
| (Service 29)      | Data download via SMS-CB available                            |
| (Service 30)      | Call Control by USIM not available                            |
| (Service 31)      | MO-SMS Control by USIM not available                          |
| (Service 32)      | RUN AT COMMAND available                                      |
| (Service 33)      | (Packed Switched Domain) shall be set to '1'                  |
| (Service 34)      | Enabled Services Table available                              |
| (Service 85)      | EPS Mobility Management Information not available             |
| (Service 86)      | Allowed CSG Lists and corresponding indications not available |

|         |           |           |           |           |           |           |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| Coding: | B1        | B2        | B3        | B4        | B5        | B6        |
| binary  | xx1x xx11 | x1xx 111x | xx1x 1x00 | 1001 11xx | xxx xx11  | xxxx xxxx |
|         | B7        | B8        | B9        | B10       | B11       |           |
|         | xxxx xxxx | xxxx xxxx | xxxx xxxx | xxxx xxxx | xx00 xxxx |           |

The coding of EF<sub>UST</sub> shall conform with the capabilities of the USIM used.

### EF<sub>EST</sub> (Enabled Services Table)

Logically:

|             |                                    |
|-------------|------------------------------------|
| (Service 1) | Fixed Dialling number deactivated  |
| (Service 2) | Barred Dialling number deactivated |
| (Service 3) | APN Control List deactivated       |

|         |    |
|---------|----|
| Coding: | B1 |
| binary  | 00 |

**EF<sub>IMSI</sub> (International Mobile Subscriber Identity)**

Logically:

Length: 8 bytes  
 IMSI: 001 01 0123456789

|         |                              |
|---------|------------------------------|
| Coding: | '08 09 10 10 10 32 54 76 98' |
|---------|------------------------------|

**EF<sub>AD</sub> (Administrative Data)**

Logically: Type approval operations  
 OFM to be deactivated by the Terminal  
 MNC: 2 digit

|         |    |    |    |    |
|---------|----|----|----|----|
| Coding: | B1 | B2 | B3 | B4 |
| Hex     | 80 | 00 | 00 | 02 |

**EF<sub>LOCI</sub> (Location Information)**

Logically:

LAI-MCC: 001  
 LAI-MNC: 01  
 LAI-LAC: 0001  
 TMSI: "FF .. FF"

|         |    |    |    |    |    |    |    |    |    |     |     |
|---------|----|----|----|----|----|----|----|----|----|-----|-----|
| Coding: | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | B11 |
| Hex     | FF | FF | FF | FF | 00 | F1 | 10 | 00 | 01 | FF  | 00  |

**EF<sub>PSLOCI</sub> (Packet Switch Location Information)**

Logically:

RAI-MCC: 001  
 RAI-MNC: 01  
 RAI-LAC: 0001  
 RAI-RAC: 05  
 P-TMSI: "FF....FF"  
 P-TMSI signature value: "FF...FF"

|         |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|
| Coding: | B1 | B2 | B3 | B4 | B5 | B6 | B7 |
| Hex     | FF | FF | FF | FF | FF | FF | FF |

|         |    |    |     |     |     |     |     |
|---------|----|----|-----|-----|-----|-----|-----|
| Coding: | B8 | B9 | B10 | B11 | B12 | B13 | B14 |
| Hex     | 00 | F1 | 10  | 00  | 01  | 05  | 00  |

**EF<sub>CBMI</sub> (Cell Broadcast Message Identifier)**

Logically:

Cell Broadcast Message Identifier 1: '03 E7'

|         |    |    |    |    |    |  |  |  |  |  |  |
|---------|----|----|----|----|----|--|--|--|--|--|--|
| Coding: | 03 | E7 | FF | .. | FF |  |  |  |  |  |  |
|---------|----|----|----|----|----|--|--|--|--|--|--|

**EF<sub>CBMID</sub> (Cell Broadcast Message Identifier for Data Download)**

Logically:

Cell Broadcast Message Identifier 1: '10 01'

|         |    |    |    |    |    |  |  |  |  |  |  |  |  |
|---------|----|----|----|----|----|--|--|--|--|--|--|--|--|
| Coding: | 10 | 01 | FF | .. | FF |  |  |  |  |  |  |  |  |
|---------|----|----|----|----|----|--|--|--|--|--|--|--|--|

**EF<sub>FDN</sub> (Fixed Dialling Numbers)**

Logically:

Record 1:      Length of alpha identifier: 6 characters;  
                  Alpha identifier: "FDN111";  
                  Length of BCD number: "03";  
                  TON and NPI:      Telephony and unknown;  
                  Dialed number:      123;  
                  CCI:                  None;  
                  Ext2:                  None.

Coding for record 1:

|     |     |     |     |     |     |     |     |    |    |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|
| Hex | B1  | B2  | B3  | B4  | B5  | B6  | B7  | B8 | B9 | B10 | B11 | B12 | B13 |
|     | 46  | 44  | 4E  | 31  | 31  | 31  | 03  | 81 | 21 | F3  | FF  | FF  | FF  |
|     | B14 | B15 | B16 | B17 | B18 | B19 | B20 |    |    |     |     |     |     |
|     | FF  | FF  | FF  | FF  | FF  | FF  | FF  |    |    |     |     |     |     |

Record 2:      Length of alpha identifier: 6 characters;  
                  Alpha identifier: "FDN222";  
                  Length of BCD number: "03";  
                  TON and NPI:      Telephony and Unknown;  
                  Dialed number:      9876;  
                  CCI:                  None;  
                  Ext2:                  None.

Coding for record 2:

|     |     |     |     |     |     |     |     |    |    |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|
| Hex | B1  | B2  | B3  | B4  | B5  | B6  | B7  | B8 | B9 | B10 | B11 | B12 | B13 |
|     | 46  | 44  | 4E  | 32  | 32  | 32  | 03  | 81 | 89 | 67  | FF  | FF  | FF  |
|     | B14 | B15 | B16 | B17 | B18 | B19 | B20 |    |    |     |     |     |     |
|     | FF  | FF  | FF  | FF  | FF  | FF  | FF  |    |    |     |     |     |     |

Record 3:      Length of alpha identifier: 6 characters;  
                  Alpha identifier: "FDN333";  
                  Length of BCD number: "0B";  
                  TON and NPI:      Telephony and International;  
                  Dialed number:      +12345678901234567890;  
                  CCI:                  None;  
                  Ext2:                  None.

Coding for record 3:

|     |     |     |     |     |     |     |     |    |    |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|
| Hex | B1  | B2  | B3  | B4  | B5  | B6  | B7  | B8 | B9 | B10 | B11 | B12 | B13 |
|     | 46  | 44  | 4E  | 33  | 33  | 33  | 0B  | 91 | 21 | 43  | 65  | 87  | 09  |
|     | B14 | B15 | B16 | B17 | B18 | B19 | B20 |    |    |     |     |     |     |
|     | 21  | 43  | 65  | 87  | 09  | FF  | FF  |    |    |     |     |     |     |

**EF<sub>BDN</sub> (Barred Dialling Numbers)**

Logically:

Record 1:      Length of alpha identifier: 6 characters;  
                  Alpha identifier: "BDN111";  
                  Length of BCD number: "06";

TON and NPI: Telephony and International;  
 Dialed number: +1357924680;  
 CCI: None;  
 Ext4: None  
 Comprehension method pointer: None.

Coding for record 1:

|     |           |           |           |           |           |           |           |           |          |           |           |           |           |
|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|
| Hex | B1<br>42  | B2<br>44  | B3<br>4E  | B4<br>31  | B5<br>31  | B6<br>31  | B7<br>06  | B8<br>91  | B9<br>31 | B10<br>75 | B11<br>29 | B12<br>64 | B13<br>08 |
|     | B14<br>FF | B15<br>FF | B16<br>FF | B17<br>FF | B18<br>FF | B19<br>FF | B20<br>FF | B21<br>FF |          |           |           |           |           |

Record 2: Length of alpha identifier: 6 characters;  
 Alpha identifier: "BDN222";  
 Length of BCD number: "03";  
 TON and NPI: Telephony and Unknown;  
 Dialed number: 122;  
 CCI: None;  
 Ext4: None  
 Comprehension method pointer: None.

Coding for record 2:

|     |           |           |           |           |           |           |           |           |          |           |           |           |           |
|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|
| Hex | B1<br>42  | B2<br>44  | B3<br>4E  | B4<br>32  | B5<br>32  | B6<br>32  | B7<br>04  | B8<br>81  | B9<br>21 | B10<br>F2 | B11<br>FF | B12<br>FF | B13<br>FF |
|     | B14<br>FF | B15<br>FF | B16<br>FF | B17<br>FF | B18<br>FF | B19<br>FF | B20<br>FF | B21<br>FF |          |           |           |           |           |

Record 3: Length of alpha identifier: 6 characters;  
 Alpha identifier: "BDN333";  
 Length of BCD number: "03";  
 TON and NPI: Telephony and Unknown;  
 Dialed number: 112;  
 CCI: None;  
 Ext4: None.  
 Comprehension method pointer: None

Coding for record 3:

|     |           |           |           |           |           |           |           |           |          |           |           |           |           |
|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|
| Hex | B1<br>42  | B2<br>44  | B3<br>4E  | B4<br>33  | B5<br>33  | B6<br>33  | B7<br>03  | B8<br>81  | B9<br>11 | B10<br>F2 | B11<br>FF | B12<br>FF | B13<br>FF |
|     | B14<br>FF | B15<br>FF | B16<br>FF | B17<br>FF | B18<br>FF | B19<br>FF | B20<br>FF | B21<br>FF |          |           |           |           |           |

### EF<sub>ECC</sub> (Emergency Call Codes)

Logically: Emergency call code: "122";  
 Emergency call code alpha identifier: "TEST";  
 Emergency call Service Category: RFU

|         |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|
| Coding: | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 |
| Hex     | 21 | F2 | FF | 54 | 45 | 53 | 54 | 00 |

**EF<sub>SMS</sub> (SMS Status)**

Logically: Last used TP-MR set to "00".  
Memory capacity available (flag unset b1="1").

Coding: B1 B2  
Hex 00 FF

**EF<sub>SMS</sub>P (Short message service parameters)**

Logically:

Record 1:  
Record length: 28 bytes  
Parameter Indicators:  
TP-Destination Address: Parameter absent  
TS-Service Centre Address: Parameter present  
TP-Protocol Identifier: Parameter absent  
TP-Data Coding Scheme: Parameter absent  
TP-Validity Period: Parameter absent  
TS-Service Centre Address:  
TON: International Number  
NPI: "ISDN / telephone numbering plan"  
Dialled number string: "112233445566778"

|           |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Coding:   | B1 | B2 | B3 | ... | B13 | B14 | B15 | B16 | B17 | B18 | B19 | B20 | B21 | B22 | B23 |
| Record 1: | FD | FF | FF | ... | FF  | 09  | 91  | 11  | 22  | 33  | 44  | 55  | 66  | 77  | F8  |

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| B24 | B25 | B26 | B27 | B28 |
| FF  | FF  | FF  | FF  | FF  |

For the display of icon: See ETSI TS 102 384 [26] subclause 27.22.1B.

## 27.22.2B Definition of default values for LTE related USIM Application Toolkit testing

### 27.22.2B.1 Definition of E-UTRAN/EPC UICC

For each item, the logical default values and the coding within the Elementary Files (EF) of the USIM follow, as defined in clause 27.22.2A of the present document with the following exceptions:

**EF<sub>UST</sub> (USIM Service Table)**

Logically:

(Service 01) Local Phone Book available  
 (Service 02) Fixed dialling numbers available  
 (Service 06) Barred dialling numbers available  
 (Service 10) Short Message Storage available  
 (Service 11) Short Message Status Reports available  
 (Service 12) Short Message Service Parameters available  
 (Service 15) Cell Broadcast Message Identifier available  
 (Services 17, 18) The Group Identifier level 1 and level 2 not available  
 (Service 20) User controlled PLMN selector available  
 (Service 22) Image (IMG) available  
 (Service 27) The GSM Access available  
 (Service 28) Data download via SMS-PP available  
 (Service 29) Data download via SMS-CB available  
 (Service 30) Call Control by USIM not available  
 (Service 31) MO-SMS Control by USIM not available

(Service 32) RUN AT COMMAND available  
 (Service 33) (Packed Switched Domain) shall be set to '1'  
 (Service 34) Enabled Services Table available  
 (Service 85) EPS Mobility Management Information available  
 (Service 86) Allowed CSG Lists and corresponding indications not available

|         |           |           |           |           |           |        |  |  |  |  |
|---------|-----------|-----------|-----------|-----------|-----------|--------|--|--|--|--|
| Coding: | B1        | B2        | B3        | B4        | B5        | B6     |  |  |  |  |
| binary  | xx1x xx11 | x1xx 111x | xx1x 1x00 | 1001 11xx | xxx xx11  | xxxx x |  |  |  |  |
|         | B7        | B8        | B9        | B10       | B11       |        |  |  |  |  |
|         | xxxx xxxx | xxxx xxxx | xxxx xxxx | xxxx xxxx | xx01 xxxx |        |  |  |  |  |

The coding of EF<sub>UST</sub> shall conform with the capabilities of the USIM used.

#### EF<sub>EPSLOCI</sub> (EPS Information)

Logically: GUTI: 0010100010266341122  
 Last visited registered TAI: 001/01/0001  
 EPS update status: not updated

|       |     |     |     |     |     |     |     |    |    |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|
| Byte: | B1  | B2  | B3  | B4  | B5  | B6  | B7  | B8 | B9 | B10 | B11 |
| Hex:  | 0B  | F6  | 00  | F1  | 10  | 00  | 01  | 02 | 66 | 43  | 11  |
|       | B12 | B13 | B14 | B15 | B16 | B17 | B18 |    |    |     |     |
|       | 22  | 00  | F1  | 10  | 00  | 01  | 01  |    |    |     |     |

#### EF<sub>EPSNSC</sub> (EPS NAS Security Context)

Logically: Key Set Identifier KSI<sub>ASME</sub>: '07' (no key available)  
 ASME Key (KSI<sub>ASME</sub>): 'FF' (not available)  
 Uplink NAS count: '00'  
 Downlink NAS count: '00'  
 Identifiers of selected NAS integrity and encryption algorithm: 'FF'

|         |    |    |    |    |    |    |    |     |     |     |     |     |
|---------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| Coding: | B1 | B2 | B3 | B4 | B5 | B6 | B7 | ... | ... | ... | ... | Bxx |
| Hex     | A0 | xx | 80 | 01 | 07 | 81 | 00 | ... | ... | ... | ... | xx  |

### 27.22.2B.2 Definition of E-UTRAN parameters

The default E-UTRAN parameters of the system simulator are:

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

The default EPS bearer context is defined in "Reference default EPS bearer context #1" in cl. 6.6.1 of TS 36.508 [33].

The default PDP type shall be "IP".

## 27.22.2C Definition of E-UTRAN/EPC ISIM-UICC

### 27.22.2C.1 Applications on the E-UTRAN/EPC ISIM-UICC

The E-UTRAN/EPC ISIM-UICC shall contain a USIM as defined in clause 27.22.2B.1 and an ISIM as defined in clause 27.22.2C.3.

### 27.22.2C.2 Default USIM values of E-UTRAN/EPC ISIM-UICC

The E-UTRAN/EPC ISIM-UICC related test cases require a USIM to access the E-UTRAN/EPC. For this purpose the USIM shall be configured as defined in clause 27.22.2B.1.

### 27.22.2C.3 Default ISIM values of E-UTRAN/EPC ISIM-UICC

The E-UTRAN/EPC ISIM-UICC shall contain an ISIM for IMS access with the following values:

#### 27.22.2C.3.1 EF<sub>AD</sub> (Administrative Data)

Logically: Type approval operations

|              |            |            |
|--------------|------------|------------|
| <b>Byte:</b> | <b>B01</b> | <b>B02</b> |
| Coding:      | 80         | 00         |

#### 27.22.2C.3.2 EF<sub>IST</sub> (ISIM Service Table)

Logically:

|   |               |
|---|---------------|
| (Service 01) P-CSCF Address:                                      | available     |
| (Service 02) Generic Bootstrapping:                               | not available |
| (Service 03) HTTP Digest:   | not available |
| (Service 04) GBA Based Local Key Establishment Mechanism:         | not available |
| (Service 05) Support for P-CSCF discovery for IMS local breakout: | not available |
| (Service 06) Short Message Storage (SMS):                         | available     |
| (Service 07) Short Message Status Reports (SMSR):                 | available     |
| (Service 08) Support for SM-over-IP:                              | available     |

|              |            |
|--------------|------------|
| <b>Byte:</b> | <b>B01</b> |
| Coding:      | 111x xxx1  |

#### 27.22.2C.3.3 EF<sub>IMPI</sub> (IMS private user identity)

Logically: 001010123456789@test.3gpp.com

|              |            |            |            |            |            |            |            |            |            |            |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Byte:</b> | <b>B01</b> | <b>B02</b> | <b>B03</b> | <b>B04</b> | <b>B05</b> | <b>B06</b> | <b>B07</b> | <b>B08</b> | <b>B09</b> | <b>B10</b> |
| Coding:      | 80         | 1D         | 30         | 30         | 31         | 30         | 31         | 30         | 31         | 32         |
|              | <b>B11</b> | <b>B12</b> | <b>B13</b> | <b>B14</b> | <b>B15</b> | <b>B16</b> | <b>B17</b> | <b>B18</b> | <b>B19</b> | <b>B20</b> |
|              | 33         | 34         | 35         | 36         | 37         | 38         | 39         | 40         | 74         | 65         |
|              | <b>B21</b> | <b>B22</b> | <b>B23</b> | <b>B24</b> | <b>B25</b> | <b>B26</b> | <b>B27</b> | <b>B28</b> | <b>B29</b> | <b>B30</b> |
|              | 73         | 74         | 2E         | 33         | 67         | 70         | 70         | 2E         | 63         | 6F         |
|              | <b>B31</b> | <b>B32</b> | <b>B33</b> | <b>B34</b> | <b>B35</b> | <b>B36</b> | <b>B37</b> | <b>B38</b> | <b>B39</b> | <b>B40</b> |
|              | 6D         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |

27.22.2C.3.4 EF<sub>DOMAIN</sub> (Home Network Domain Name)

Logically: test.3gpp.com

| Byte:   | B01        | B02        | B03        | B04        | B05        | B06        | B07        | B08        | B09        | B10        |
|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Coding: | 80         | 0D         | 74         | 65         | 73         | 74         | 2E         | 33         | 67         | 70         |
|         | <b>B11</b> | <b>B12</b> | <b>B13</b> | <b>B14</b> | <b>B15</b> | <b>B16</b> | <b>B17</b> | <b>B18</b> | <b>B19</b> | <b>B20</b> |
|         | 70         | 2E         | 63         | 6F         | 6D         | FF         | FF         | FF         | FF         | FF         |

27.22.2C.3.5 EF<sub>IMPU</sub> (IMS public user identity)

Record 1 :

Logically: [sip:001010123456789@ims.mnc246.mcc081.3gppnetwork.org](tel:sip:001010123456789@ims.mnc246.mcc081.3gppnetwork.org)

| Byte:   | B01        | B02        | B03        | B04        | B05        | B06        | B07        | B08        | B09        | B10        |
|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Coding: | 80         | 35         | 73         | 69         | 70         | 3A         | 30         | 30         | 31         | 30         |
|         | <b>B11</b> | <b>B12</b> | <b>B13</b> | <b>B14</b> | <b>B15</b> | <b>B16</b> | <b>B17</b> | <b>B18</b> | <b>B19</b> | <b>B20</b> |
|         | 31         | 30         | 31         | 32         | 33         | 34         | 35         | 36         | 37         | 38         |
|         | <b>B21</b> | <b>B22</b> | <b>B23</b> | <b>B24</b> | <b>B25</b> | <b>B26</b> | <b>B27</b> | <b>B28</b> | <b>B29</b> | <b>B30</b> |
|         | 39         | 40         | 69         | 6D         | 73         | 2E         | 6D         | 6E         | 63         | 32         |
|         | <b>B31</b> | <b>B32</b> | <b>B33</b> | <b>B34</b> | <b>B35</b> | <b>B36</b> | <b>B37</b> | <b>B38</b> | <b>B39</b> | <b>B40</b> |
|         | 34         | 36         | 2E         | 6D         | 63         | 63         | 30         | 38         | 31         | 2E         |
|         | <b>B41</b> | <b>B42</b> | <b>B43</b> | <b>B44</b> | <b>B45</b> | <b>B46</b> | <b>B47</b> | <b>B48</b> | <b>B49</b> | <b>B50</b> |
|         | 33         | 67         | 70         | 70         | 6E         | 65         | 74         | 77         | 6F         | 72         |
|         | <b>B51</b> | <b>B52</b> | <b>B53</b> | <b>B54</b> | <b>B55</b> | <b>B56</b> | <b>B57</b> | <b>B58</b> | <b>B59</b> | <b>B60</b> |
|         | 6B         | 2E         | 6F         | 72         | 67         | FF         | FF         | FF         | FF         | FF         |

Record 2:

Logically: sip:+11234567890@test.3gpp.com

| Byte:   | B01        | B02        | B03        | B04        | B05        | B06        | B07        | B08        | B09        | B10        |
|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Coding: | 80         | 1E         | 73         | 69         | 70         | 3A         | 2B         | 31         | 31         | 32         |
|         | <b>B11</b> | <b>B12</b> | <b>B13</b> | <b>B14</b> | <b>B15</b> | <b>B16</b> | <b>B17</b> | <b>B18</b> | <b>B19</b> | <b>B20</b> |
|         | 33         | 34         | 35         | 36         | 37         | 38         | 39         | 30         | 40         | 74         |
|         | <b>B21</b> | <b>B22</b> | <b>B23</b> | <b>B24</b> | <b>B25</b> | <b>B26</b> | <b>B27</b> | <b>B28</b> | <b>B29</b> | <b>B30</b> |
|         | 65         | 73         | 74         | 2E         | 33         | 67         | 70         | 70         | 2E         | 63         |
|         | <b>B31</b> | <b>B32</b> | <b>B33</b> | <b>B34</b> | <b>B35</b> | <b>B36</b> | <b>B37</b> | <b>B38</b> | <b>B39</b> | <b>B40</b> |
|         | 6F         | 6D         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |
|         | <b>B41</b> | <b>B42</b> | <b>B43</b> | <b>B44</b> | <b>B45</b> | <b>B46</b> | <b>B47</b> | <b>B48</b> | <b>B49</b> | <b>B50</b> |
|         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |
|         | <b>B51</b> | <b>B52</b> | <b>B53</b> | <b>B54</b> | <b>B55</b> | <b>B56</b> | <b>B57</b> | <b>B58</b> | <b>B59</b> | <b>B60</b> |
|         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |

Record 3:

Logically: tel:+11234567890

| Byte:   | B01        | B02        | B03        | B04        | B05        | B06        | B07        | B08        | B09        | B10        |
|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Coding: | 80         | 10         | 74         | 65         | 6C         | 3A         | 2B         | 31         | 31         | 32         |
|         | <b>B11</b> | <b>B12</b> | <b>B13</b> | <b>B14</b> | <b>B15</b> | <b>B16</b> | <b>B17</b> | <b>B18</b> | <b>B19</b> | <b>B20</b> |
|         | 33         | 34         | 35         | 36         | 37         | 38         | 39         | 30         | FF         | FF         |
|         | <b>B21</b> | <b>B22</b> | <b>B23</b> | <b>B24</b> | <b>B25</b> | <b>B26</b> | <b>B27</b> | <b>B28</b> | <b>B29</b> | <b>B30</b> |
|         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |
|         | <b>B31</b> | <b>B32</b> | <b>B33</b> | <b>B34</b> | <b>B35</b> | <b>B36</b> | <b>B37</b> | <b>B38</b> | <b>B39</b> | <b>B40</b> |
|         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |
|         | <b>B41</b> | <b>B42</b> | <b>B43</b> | <b>B44</b> | <b>B45</b> | <b>B46</b> | <b>B47</b> | <b>B48</b> | <b>B49</b> | <b>B50</b> |
|         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |
|         | <b>B51</b> | <b>B52</b> | <b>B53</b> | <b>B54</b> | <b>B55</b> | <b>B56</b> | <b>B57</b> | <b>B58</b> | <b>B59</b> | <b>B60</b> |
|         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |



27.22.2C.3.6 EF<sub>P-CSCF</sub> (P-CSCF ADDRESS)

Logically:

Address Type: FQDN  
P-CSCF Address: pcsf1.anyims.test.3gpp.com

|              |            |            |            |            |            |            |            |            |            |            |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Byte:</b> | <b>B01</b> | <b>B02</b> | <b>B03</b> | <b>B04</b> | <b>B05</b> | <b>B06</b> | <b>B07</b> | <b>B08</b> | <b>B09</b> | <b>B10</b> |
| Coding:      | 80         | 1C         | 00         | 70         | 63         | 73         | 63         | 66         | 31         | 2E         |
|              | <b>B11</b> | <b>B12</b> | <b>B13</b> | <b>B14</b> | <b>B15</b> | <b>B16</b> | <b>B17</b> | <b>B18</b> | <b>B19</b> | <b>B20</b> |
|              | 61         | 6E         | 79         | 69         | 6D         | 73         | 2E         | 74         | 65         | 73         |
|              | <b>B21</b> | <b>B22</b> | <b>B23</b> | <b>B24</b> | <b>B25</b> | <b>B26</b> | <b>B27</b> | <b>B28</b> | <b>B29</b> | <b>B30</b> |
|              | 74         | 2E         | 33         | 67         | 70         | 70         | 2E         | 63         | 6F         | 6D         |
|              | <b>B31</b> | <b>B32</b> | <b>B33</b> | <b>B34</b> | <b>B35</b> | <b>B36</b> | <b>B37</b> | <b>B38</b> | <b>B39</b> | <b>B40</b> |
|              | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |

Note: This EF does not apply for 3GPP and shall not be used by a terminal using a 3GPP access network or a 3GPP Interworking WLAN.

27.22.2C.3.7 EF<sub>SMS</sub> (Short Message Service)

At least 10 records.  
All records shall be empty.

Logically: Status byte set to empty.

Record 1-x (x ≥ 10):

|              |           |           |           |           |           |           |           |           |           |            |            |            |     |             |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|-----|-------------|
| <b>Byte:</b> | <b>B1</b> | <b>B2</b> | <b>B3</b> | <b>B4</b> | <b>B5</b> | <b>B6</b> | <b>B7</b> | <b>B8</b> | <b>B9</b> | <b>B10</b> | <b>B11</b> | <b>B12</b> | ... | <b>B176</b> |
| Coding:      | 00        | FF        | FF        | FF        | FF        | FF        | FF        | FF        | FF        | FF         | FF         | FF         | ... | FF          |

27.22.2C.3.8 EF<sub>SMSR</sub> (Short message status reports)

This EF shall contain as many records as EF<sub>SMS</sub>.  
All records shall be empty.

a) Logically: Status byte set to empty.

Record 1-x (x ≥ 10):

|              |            |            |            |            |            |            |            |            |            |            |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Byte:</b> | <b>B01</b> | <b>B02</b> | <b>B03</b> | <b>B04</b> | <b>B05</b> | <b>B06</b> | <b>B07</b> | <b>B08</b> | <b>B09</b> | <b>B10</b> |
| Coding:      | 00         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |
|              | <b>B11</b> | <b>B12</b> | <b>B13</b> | <b>B14</b> | <b>B15</b> | <b>B16</b> | <b>B17</b> | <b>B18</b> | <b>B19</b> | <b>B20</b> |
|              | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |
|              | <b>B21</b> | <b>B22</b> | <b>B23</b> | <b>B24</b> | <b>B25</b> | <b>B26</b> | <b>B27</b> | <b>B28</b> | <b>B29</b> | <b>B30</b> |
|              | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         | FF         |

27.22.2C.3.9 EF<sub>SMSP</sub> (Short message service parameters)

Logically:

Record 1:

Record length: 28 bytes

Parameter Indicators:

TP-Destination Address: Parameter absent  
TS-Service Centre Address: Parameter present  
TP-Protocol Identifier: Parameter absent

TP-Data Coding Scheme: Parameter absent

TP-Validity Period: Parameter absent

TS-Service Centre Address:

TON: International Number

NPI: "ISDN / telephone numbering plan"

a) Dialed number string: "112233445566778"

|         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Byte:   | B1  | B2  | B3  | ... | B13 | B14 | B15 | B16 | B17 | B18 | B19 | B20 | B21 | B22 | B23 |
| Coding: | FD  | FF  | FF  | ... | FF  | 09  | 91  | 11  | 22  | 33  | 44  | 55  | 66  | 77  | F8  |
|         | B24 | B25 | B26 | B27 | B28 |     |     |     |     |     |     |     |     |     |     |
|         | FF  | FF  | FF  | FF  | FF  |     |     |     |     |     |     |     |     |     |     |

a) All other records shall be empty.

### 27.22.2C.3.10 EF<sub>SMSS</sub> (SMS Status)

Logically: Last used TP-MR set to "00".

a) Memory capacity available (flag unset b1="1").

|         |    |    |
|---------|----|----|
| Byte:   | B1 | B2 |
| Coding: | 00 | FF |

### 27.22.2C.4 Default values at DF\_TELECOM

#### 27.22.2C.4.1 EF<sub>PSISMSC</sub> (Public Service Identity of the SM-SC)

1 record only.

Logically:

Record 1:

Public Service Identity of the SM-SC: tel:+112233445566778

|              |            |            |            |            |            |            |            |            |            |            |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Byte:</b> | <b>B01</b> | <b>B02</b> | <b>B03</b> | <b>B04</b> | <b>B05</b> | <b>B06</b> | <b>B07</b> | <b>B08</b> | <b>B09</b> | <b>B10</b> |
| Coding:      | 80         | 14         | 74         | 65         | 6C         | 3A         | 2B         | 31         | 31         | 32         |
|              | <b>B11</b> | <b>B12</b> | <b>B13</b> | <b>B14</b> | <b>B15</b> | <b>B16</b> | <b>B17</b> | <b>B18</b> | <b>B19</b> | <b>B20</b> |
|              | 32         | 33         | 33         | 34         | 34         | 35         | 35         | 36         | 36         | 37         |
|              | <b>B21</b> | <b>B22</b> | <b>B23</b> | <b>B24</b> | <b>B25</b> | <b>B26</b> | <b>B27</b> | <b>B28</b> | ...        | <b>Bxx</b> |
|              | 37         | 38         | FF         | FF         | FF         | FF         | FF         | FF         | ...        | FF         |

## 27.22.1 Initialization of USIM Application Toolkit Enabled UICC by USIM Application Toolkit Enabled ME (Profile Download)

### 27.22.1.1 Definition and applicability

See clause 3.2.2.

### 27.22.1.2 Conformance requirement

The ME shall support the PROFILE DOWNLOAD command as defined in:

- TS 31.111 [15] clause 5.2.

### 27.22.1.3 Test purpose

To verify that the ME sends a TERMINAL PROFILE command in accordance with the above requirements.

### 27.22.1.4 Method of test

#### 27.22.1.4.1 Initial conditions

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

#### 27.22.1.4.2 Procedure

#### Expected Sequence 1 (PROFILE DOWNLOAD)

| Step | Direction | Message / Action                | Comments          |
|------|-----------|---------------------------------|-------------------|
| 1    | USER → ME | Power on ME                     | [UICC Activation] |
| 2    | ME → UICC | Select EF PL                    |                   |
| 3    | UICC → ME | Read EF PL                      |                   |
| 4    | ME → UICC | TERMINAL PROFILE 1.1            | PROFILE DOWNLOAD  |
| 5    | UICC → ME | NORMAL ENDING OF<br>COMMAND 1.1 |                   |
| 6    | ME → UICC | Select USIM Application         |                   |

#### TERMINAL PROFILE: 1.1

Logically:

Coding:

|       |        |        |       |       |       |
|-------|--------|--------|-------|-------|-------|
| APDU: | CLA=80 | INS=10 | P1=00 | P2=00 | P3=XX |
|-------|--------|--------|-------|-------|-------|

|          |    |    |     |
|----------|----|----|-----|
| DATA IN: | YY | ZZ | ... |
|----------|----|----|-----|

With XX representing the length of the following DATA IN depending on the USIM Toolkit commands supported by the ME, and with YY, ZZ, ... representing here the bytes of the TERMINAL PROFILE data, as specified in TS 31.111 [15], clause 5.2.

#### NORMAL ENDING OF COMMAND: 1.1

Logically:

Coding:

|        |        |
|--------|--------|
| SW1=90 | SW2=00 |
|--------|--------|

### 27.22.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.

## 27.22.2 Contents of the TERMINAL PROFILE command

### 27.22.2.1 Definition and applicability

See table E.1 in annex B.

### 27.22.2.2 Conformance requirement

The ME shall support the PROFILE DOWNLOAD command as defined in:

- TS 31.111 [15] clause 5.2.

### 27.22.2.3 Test purpose

1. Verify that the TERMINAL PROFILE indicates that Profile Download facility is supported.
2. Record which USIM Application Toolkit facilities are supported by the ME, to determine which subsequent tests are required.

### 27.22.2.4 Method of test

#### 27.22.2.4.1 Initial conditions

The ME is connected to the USIM Simulator. All elementary files are coded as the default USIM Application Toolkit personalization.

#### 27.22.1.4.2 Procedure

- a) The ME is powered on.
- b) After the ME sends the TERMINAL PROFILE command to the USIM Simulator, the USIM Simulator shall record the content of the TERMINAL PROFILE.
- c) The USIM Simulator shall return SW1 / SW2 of '90 00'.
- d) The contents of the TERMINAL PROFILE is recorded and compared to the corresponding table E.1 "status" column.

The test is terminated upon the ME sending the TERMINAL PROFILE command to the USIM Simulator.

### 27.22.2.5 Test requirement

- 1) After step a) the ME shall send the TERMINAL PROFILE command to the USIM Simulator with bit 1 of the first byte set to 1 (facility supported by ME).
- 2) In table E.1 for the corresponding ME USIM Toolkit Release and Options, The TERMINAL PROFILE information "support" recorded must be in accordance with the "Status" column. Support of features defined only in releases later than currently tested release shall be ignored.

## 27.22.3 Servicing of proactive UICC commands

### 27.22.3.1 Definition and applicability

See clause 3.2.2.

### 27.22.3.2 Conformance requirement

On detection of a pending USIM Application Toolkit command from the UICC the ME shall perform the FETCH command to retrieve the proactive UICC command. The result of the executed command shall be transmitted from the ME to the UICC within a TERMINAL RESPONSE command.

The MORE TIME proactive command is used in this test. The ME shall have knowledge of this command, but may not support this USIM Application Toolkit facility.

- TS 31.111 [15] clause 6.3.

### 27.22.3.3 Test purpose

To verify that the ME uses the FETCH command to obtain the proactive UICC command, after detection of a pending proactive UICC command. The pending proactive UICC command is indicated by the response parameters '91 xx' from the UICC.

To verify that the ME transmits the result of execution of the proactive UICC command to the UICC in the TERMINAL RESPONSE command.

### 27.22.3.4 Method of test

#### 27.22.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

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

The USIM Simulator is configured to indicate that a proactive UICC command is pending.

The USIM Simulator is configured to monitor the UICC - ME interface.

#### 27.22.3.4.2 Procedure

- a) The ME is powered on.
- b) After the ME has performed the PROFILE DOWNLOAD procedure, the USIM Simulator indicates that a Proactive UICC Command is pending with SW1 / SW2 of '91 0B'.
- c) After the ME sends the FETCH command to the USIM Simulator, the USIM Simulator returns Proactive UICC Command 2.1: MORE TIME.

### 27.22.3.5 Test requirement

- 1) After step b) the ME shall send the FETCH command to the UICC.
- 2) After step c) the ME shall send the TERMINAL REPONSE command with command number "01", type of command "02" and command qualifier "00".

## 27.22.4 Proactive UICC commands

### 27.22.4.1 DISPLAY TEXT

#### 27.22.4.1.1 DISPLAY TEXT (Normal)

##### 27.22.4.1.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.1.1.2 Conformance requirements

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

TS 31.111 [15], clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

##### 27.22.4.1.1.3 Test purpose

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

27.22.4.1.1.4 Method of test

27.22.4.1.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

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

27.22.4.1.1.4.2 Procedure

**Expected Sequence 1.1 (DISPLAY TEXT normal priority, Unpacked 8 bit data for Text String, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.1.

**Expected Sequence 1.2 (DISPLAY TEXT normal priority, Unpacked 8 bit data for Text String, screen busy)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.2.

**Expected Sequence 1.3 (DISPLAY TEXT, high priority, Unpacked 8 bit data for Text String, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.3.

**Expected Sequence 1.4 (DISPLAY TEXT, Packed, SMS default alphabet, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.4.

**Expected Sequence 1.5 (DISPLAY TEXT, Clear message after delay, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.5.

**Expected Sequence 1.6 (DISPLAY TEXT, Text string with 160 bytes, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.6.

**Expected Sequence 1.7 (DISPLAY TEXT, Backward move in UICC session, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.7.

**Expected Sequence 1.8 (DISPLAY TEXT, session terminated by user)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.8.

**Expected Sequence 1.9 (DISPLAY TEXT, icon and text to be displayed, no text string given, not understood by ME)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.1.4.2, Expected Sequence 1.9.

27.22.4.1.1.5 Test requirement

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

27.22.4.1.2 DISPLAY TEXT (Support of "No response from user")

27.22.4.1.2.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.1.2.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

#### 27.22.4.1.2.3 Test purpose

To verify that the ME displays the text contained in the DISPLAY TEXT proactive UICC command, and returns a "No response from user" result value in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.1.2.4 Method of test

##### 27.22.4.1.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

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

ME Manufacturers shall set the "no response from user" period of time as declared in table A.2/1..

The USIM simulator shall be set to that period of time.

##### 27.22.4.1.2.4.2 Procedure

#### **Expected Sequence 2.1 (DISPLAY TEXT, no response from user)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.2.4.2, Expected Sequence.

##### 2.1.27.22.4.1.2.5 Test requirement

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

#### 27.22.4.1.3 DISPLAY TEXT (Display of extension text)

##### 27.22.4.1.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.1.3.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.15.

##### 27.22.4.1.3.3 Test purpose

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

##### 27.22.4.1.3.4 Method of test

##### 27.22.4.1.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

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

#### 27.22.4.1.3.4.2 Procedure

##### **Expected Sequence 3.1 (DISPLAY TEXT, display of the extension text)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.3.4.2, Expected Sequence 3.1.

#### 27.22.4.1.3.5 Test requirement

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

#### 27.22.4.1.4 DISPLAY TEXT (Sustained text)

##### 27.22.4.1.4.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.1.4.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.15, clause 8.15.

##### 27.22.4.1.4.3 Test purpose

To verify that the ME displays the text contained in the DISPLAY TEXT proactive UICC command, returns a successful result in the TERMINAL RESPONSE command send to the UICC and sustain the display beyond sending the TERMINAL response.

##### 27.22.4.1.4.4 Method of test

###### 27.22.4.1.4.4.1 Initial conditions

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

The elementary files are coded as USIM Application Toolkit default.

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

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

###### 27.22.4.1.4.4.2 Procedure

##### **Expected Sequence 4.1 (DISPLAY TEXT, sustained text, unpacked data 8 bits, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.4.4.2, Expected Sequence 4.1.

##### **Expected Sequence 4.2 (DISPLAY TEXT, sustained text, clear message after delay, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.4.4.2, Expected Sequence 4.2.

##### **Expected Sequence 4.3 (DISPLAY TEXT, sustained text, wait for user MMI to clear, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.4.4.2, Expected Sequence 4.3.



**Expected Sequence 4.4 (DISPLAY TEXT, sustained text, wait for high priority event to clear, successful)**

| Step | Direction | MESSAGE / Action                                 | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: DISPLAY TEXT 4.4.1 |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>DISPLAY TEXT 4.4.1         | [wait for user to clear message]                           |
| 4    | ME → USER | Display "Toolkit Test 4"                         |  |
| 5    | ME → UICC | TERMINAL RESPONSE:<br>DISPLAY TEXT 4.4.1         | [Command performed successfully]                           |
| 6    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED                  |  |
| 7    | ME → USER | Display of "Toolkit Test 4"                      | Text shall sustain until - a higher priority event occurs. |
| 8    | USS → ME  | INCOMING MOBILE<br>TERMINATED CALL               |  |

PROACTIVE COMMAND: DISPLAY TEXT 4.4.1

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Display

Text String

Data coding scheme: unpacked, 8 bit data  
 Text: "Toolkit Test 4"

Immediate Response

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 21 | 80 | 82 | 02 | 81 | 02 | 8D |
|          | 0F | 04 | 54 | 6F | 6F | 6C | 6B | 69 | 74 | 20 | 54 | 65 |
|          | 73 | 74 | 20 | 34 | AB | 00 |    |    |    |    |    |    |

TERMINAL RESPONSE: DISPLAY TEXT 4.4.1

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 21 | 80 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## 27.22.4.1.4.5 Test requirement

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

## 27.22.4.1.5 DISPLAY TEXT (Display of icons)

## 27.22.4.1.5.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.1.5.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

## 27.22.4.1.5.3 Test purpose

To verify that the ME displays the icons which are referred to in the contents of the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

## 27.22.4.1.5.4 Method of test

## 27.22.4.1.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

## 27.22.4.1.5.4.2 Procedure

**Expected Sequence 5.1A (DISPLAY TEXT, display of basic icon, self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.1A.

**Expected Sequence 5.1B (DISPLAY TEXT, display of basic icon, self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.1B.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.2A.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.2B.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.3A.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.1.5.4.2, Expected Sequence 5.3B.27.22.4.1.5.5 Test requirement

The ME shall operate in the manner defined in expected sequences 5.1A to 5.3B.

#### 27.22.4.1.6 DISPLAY TEXT (UCS2 display in Cyrillic)

##### 27.22.4.1.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.1.6.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

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

##### 27.22.4.1.6.3 Test purpose

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

##### 27.22.4.1.6.4 Method of test

###### 27.22.4.1.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

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

###### 27.22.4.1.6.4.2 Procedure

#### **Expected Sequence 6.1 (DISPLAY TEXT, UCS2 coded in Cyrillic)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.6.4.2, Expected Sequence 6.1.

##### 27.22.4.1.6.5 Test requirement

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

#### 27.22.4.1.7 DISPLAY TEXT (Variable Time out)

##### 27.22.4.1.7.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.1.7.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31 and clause 8.43.

The ME shall support the variable time out for the display text.

##### 27.22.4.1.7.3 Test purpose

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

27.22.4.1.7.4 Method of test

27.22.4.1.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.1.7.4.2 Procedure

#### **Expected Sequence 7.1 (DISPLAY TEXT, variable timeout of 10 seconds)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.7.4.2, Expected Sequence 7.1.

27.22.4.1.7.5 Test requirement

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

27.22.4.1.8 DISPLAY TEXT (Support of Text Attribute)

27.22.4.1.8.1 DISPLAY TEXT (Support of Text Attribute – Left Alignment)

27.22.4.1.8.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.1.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with Left Alignment for the display text.

27.22.4.1.8.1.3 Test purpose

To verify that the ME displays the text formatted according to the left alignment text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.1.4 Method of test

27.22.4.1.8.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.1.8.1.4.2 Procedure

#### **Expected Sequence 8.1 (DISPLAY TEXT, Text Attribute with Left Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.1.4.2, Expected Sequence 8.1.

#### 27.22.4.1.8.1.5 Test requirement

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

#### 27.22.4.1.8.2 DISPLAY TEXT (Support of Text Attribute – Center Alignment)

##### 27.22.4.1.8.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.1.8.2.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with Centre Alignment for the display text.

##### 27.22.4.1.8.2.3 Test purpose

To verify that the ME displays the text formatted according to the center alignment text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.1.8.2.4 Method of test

###### 27.22.4.1.8.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

###### 27.22.4.1.8.2.4.2 Procedure

#### **Expected Sequence 8.2 (DISPLAY TEXT, Text Attribute with Center Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.2.4.2, Expected Sequence 8.2.

##### 27.22.4.1.8.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.2.

#### 27.22.4.1.8.3 DISPLAY TEXT (Support of Text Attribute – Right Alignment)

##### 27.22.4.1.8.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.1.8.3.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with Right Alignment for the display text.

#### 27.22.4.1.8.3.3 Test purpose

To verify that the ME displays the text formatted according to the right alignment text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.1.8.3.4 Method of test

##### 27.22.4.1.8.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

##### 27.22.4.1.8.3.4.2 Procedure

#### **Expected Sequence 8.3 (DISPLAY TEXT, Text Attribute with Right Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.3.4.2, Expected Sequence 8.3.

##### 27.22.4.1.8.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.3.

#### 27.22.4.1.8.4 DISPLAY TEXT (Support of Text Attribute – Large Font Size)

##### 27.22.4.1.8.4.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.1.8.4.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with large font size for the display text.

##### 27.22.4.1.8.4.3 Test purpose

To verify that the ME displays the text formatted according to the large size font text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.1.8.4.4 Method of test

##### 27.22.4.1.8.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.1.8.4.4.2 Procedure

**Expected Sequence 8.4 (DISPLAY TEXT, Text Attribute with Large Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.4.4.2, Expected Sequence 8.4.

27.22.4.1.8.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.4.

27.22.4.1.8.5 DISPLAY TEXT (Support of Text Attribute – Small Font Size)

27.22.4.1.8.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.5.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with small font size for the display text.

27.22.4.1.8.5.3 Test purpose

To verify that the ME displays the text formatted according to the small size font text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.5.4 Method of test

27.22.4.1.8.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.1.8.5.4.2 Procedure

**Expected Sequence 8.5 (DISPLAY TEXT, Text Attribute with Small Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.5.4.2, Expected Sequence 8.5.

27.22.4.1.8.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.5.

27.22.4.1.8.6 DISPLAY TEXT (Support of Text Attribute – Bold On)

27.22.4.1.8.6.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.1.8.6.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with bold on for the display text.

#### 27.22.4.1.8.6.3 Test purpose

To verify that the ME displays the text formatted according to the bold text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.1.8.6.4 Method of test

##### 27.22.4.1.8.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

##### 27.22.4.1.8.6.4.2 Procedure

#### **Expected Sequence 8.6 (DISPLAY TEXT, Text Attribute with Bold On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.6.4.2, Expected Sequence 8.6.

##### 27.22.4.1.8.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.6.

#### 27.22.4.1.8.7 DISPLAY TEXT (Support of Text Attribute – Italic On)

##### 27.22.4.1.8.7.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.1.8.7.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with italic on for the display text.

##### 27.22.4.1.8.7.3 Test purpose

To verify that the ME displays the text formatted according to the italic text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.



27.22.4.1.8.7.4 Method of test

27.22.4.1.8.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.1.8.7.4.2 Procedure

#### **Expected Sequence 8.7 (DISPLAY TEXT, Text Attribute with Italic On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.7.4.2, Expected Sequence 8.7.

27.22.4.1.8.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.7.

27.22.4.1.8.8 DISPLAY TEXT (Support of Text Attribute – Underline On)

27.22.4.1.8.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.8.8.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with underline on for the display text.

27.22.4.1.8.8.3 Test purpose

To verify that the ME displays the text formatted according to the underline text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.1.8.8.4 Method of test

27.22.4.1.8.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.1.8.8.4.2 Procedure

#### **Expected Sequence 8.8 (DISPLAY TEXT, Text Attribute with Underline On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.8.4.2, Expected Sequence 8.8.

**27.22.4.1.8.8.5** Test requirement

The ME shall operate in the manner defined in expected sequence 8.8.

**27.22.4.1.8.9** DISPLAY TEXT (Support of Text Attribute – Strikethrough On)**27.22.4.1.8.9.1** Definition and applicability

See clause 3.2.2.

**27.22.4.1.8.9.2** Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with underline on for the display text.

**27.22.4.1.8.9.3** Test purpose

To verify that the ME displays the text formatted according to the strikethrough text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

**27.22.4.1.8.9.4** Method of test**27.22.4.1.8.9.4.1** Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

**27.22.4.1.8.9.4.2** Procedure**Expected Sequence 8.9 (DISPLAY TEXT, Text Attribute with Strikethrough On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.9.4.2, Expected Sequence 8.9.

**27.22.4.1.8.9.5** Test requirement

The ME shall operate in the manner defined in expected sequence 8.9.

**27.22.4.1.8.10** DISPLAY TEXT (Support of Text Attribute – Foreground and Background Colours)**27.22.4.1.8.10.1** Definition and applicability

See clause 3.2.2.

**27.22.4.1.8.10.2** Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.31, clause 8.43 and clause 8.70.

The ME shall support the text attribute with different foreground and background colours for the display text.

#### 27.22.4.1.8.10.3 Test purpose

To verify that the ME displays the text formatted according to the foreground and background colour text attribute configuration contained in the DISPLAY TEXT proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.1.8.10.4 Method of test

##### 27.22.4.1.8.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

##### 27.22.4.1.8.10.4.2 Procedure

#### **Expected Sequence 8.10 (DISPLAY TEXT, Text Attribute with Foreground and Background Colours)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.8.10.4.2, Expected Sequence 8.10.

#### 27.22.4.1.8.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.10.

### 27.22.4.1.9 DISPLAY TEXT (UCS2 display in Chinese)

#### 27.22.4.1.9.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.1.9.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

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

#### 27.22.4.1.9.3 Test purpose

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

#### 27.22.4.1.9.4 Method of test

##### 27.22.4.1.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

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

27.22.4.1.9.4.2 Procedure

**Expected Sequence 9.1 (DISPLAY TEXT, UCS2 coded – Chinese characters)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.9.4.2, Expected Sequence 9.1.

27.22.4.1.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.1.

27.22.4.1.10 DISPLAY TEXT (UCS2 display in Katakana)

27.22.4.1.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.1.10.2 Conformance requirement

The ME shall support the DISPLAY TEXT command as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.1, clause 6.5.4, clause 6.6.1, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

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

27.22.4.1.10.3 Test purpose

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

27.22.4.1.10.4 Method of test

27.22.4.1.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

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

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

27.22.4.1.10.4.2 Procedure

**Expected Sequence 10.1 (DISPLAY TEXT, UCS2 coded – Katakana characters)**

See ETSI TS 102 384 [26] in subclause 27.22.4.1.10.4.2, Expected Sequence 10.1.

27.22.4.1.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 10.1.

27.22.4.2 GET INKEY

27.22.4.2.1 GET INKEY(normal)

27.22.4.2.1.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.2.1.2 Conformance Requirement

The ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

#### 27.22.4.2.1.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the single character entered in the TERMINAL RESPONSE command sent to the UICC.

#### 27.22.4.2.1.4 Method of test

##### 27.22.4.2.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME screen shall be set to a display other than the idle display.

##### 27.22.4.2.1.4.2 Procedure

#### **Expected Sequence 1.1 (GET INKEY, digits only for character, Unpacked 8 bit data for Text String, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.1.

#### **Expected Sequence 1.2 (GET INKEY, digits only for character set, SMS default Alphabet for Text String, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.2.

#### **Expected Sequence 1.3 (GET INKEY, backward move)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.3.

#### **Expected Sequence 1.4 (GET INKEY, abort)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.4.

#### **Expected Sequence 1.5 (GET INKEY, SMS default alphabet for character set, Unpacked 8 bit data for Text String, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.5.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.2.1.4.2, Expected Sequence 1.6.

#### 27.22.4.2.1.5 Test requirement

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

#### 27.22.4.2.2 GET INKEY (No response from User)

##### 27.22.4.2.2.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.2.2.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

#### 27.22.4.2.2.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns a "No response from user" result value in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.2.2.4 Method of test

##### 27.22.4.2.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

ME Manufacturers shall set the "no response from user" period of time as declared in table A.2/2.

The USIM Simulator shall be set to that period of time.

##### 27.22.4.2.2.4.2 Procedure

#### **Expected Sequence 2.1 (GET INKEY, no response from the user)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.2.4.2, Expected Sequence 2.1.

#### 27.22.4.2.2.5 Test requirement

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

#### 27.22.4.2.3 GET INKEY (UCS2 display in Cyrillic)

##### 27.22.4.2.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.3.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

##### 27.22.4.2.3.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

## 27.22.4.2.3.4 Method of test

## 27.22.4.2.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

## 27.22.4.2.3.4.2 Procedure

**Expected Sequence 3.1 (GET INKEY, Text String coding in UCS2 Alphabet in Cyrillic, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.3.4.2, Expected Sequence 3.1.

**Expected Sequence 3.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet in Cyrillic, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.3.4.2, Expected Sequence 3.2.

## 27.22.4.2.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1 to 3.2.

## 27.22.4.2.4 GET INKEY (UCS2 entry in Cyrillic)

## 27.22.4.2.4.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.2.4.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

## 27.22.4.2.4.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

## 27.22.4.2.4.4 Method of test

## 27.22.4.2.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

## 27.22.4.2.4.4.2 Procedure

**Expected Sequence 4.1 (GET INKEY, characters from UCS2 alphabet in Cyrillic, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.4.4.2, Expected Sequence 4.1.

## 27.22.4.2.4.5 Test requirement

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

## 27.22.4.2.5 GET INKEY ("Yes/No" Response)

## 27.22.4.2.5.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.2.5.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

## 27.22.4.2.5.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

## 27.22.4.2.5.4 Method of test

## 27.22.4.2.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

## 27.22.4.2.5.4.2 Procedure

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

See ETSI TS 102 384 [26] in subclause 27.22.4.2.5.4.2, Expected Sequence 5.1.

## 27.22.4.2.5.5 Test requirement

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

## 27.22.4.2.6 GET INKEY (display of Icon)

## 27.22.4.2.6.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.2.6.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:



- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

#### 27.22.4.2.6.3 Test purpose

To verify that the ME displays the Icon contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

#### 27.22.4.2.6.4 Method of test

##### 27.22.4.2.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

##### 27.22.4.2.6.4.2 Procedure

#### **Expected Sequence 6.1A (GET INKEY, Basic icon, self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.1A.

#### **Expected Sequence 6.1B (GET INKEY, Basic icon, self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.1B.

#### **Expected Sequence 6.2A (GET INKEY, Basic icon, non self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.2A.

#### **Expected Sequence 6.2B (GET INKEY, Basic icon, non self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.2B.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.3A.

#### **Expected Sequence 6.3B (GET INKEY, Colour icon, self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.3B.

#### **Expected Sequence 6.4A (GET INKEY, Colour icon, non self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.4A.

#### **Expected Sequence 6.4B (GET INKEY, Colour icon, non self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.6.4.2, Expected Sequence 6.4B.

#### 27.22.4.2.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1A to 6.4B.

### 27.22.4.2.7 GET INKEY (Help Information)

#### 27.22.4.2.7.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.2.7.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

#### 27.22.4.2.7.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

#### 27.22.4.2.7.4 Method of test

##### 27.22.4.2.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

##### 27.22.4.2.7.4.2 Procedure

#### **Expected Sequence 7.1 (GET INKEY, help information available)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.7.4.2, Expected Sequence 7.1.

##### 27.22.4.2.7.5 Test requirement

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

### 27.22.4.2.8 GET INKEY (Variable Time out)

#### 27.22.4.2.8.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.2.8.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.31.

#### 27.22.4.2.8.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.8.4 Method of test

27.22.4.2.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.2.8.4.2 Procedure

#### **Expected Sequence 8.1 (GET INKEY, variable time out of 10 seconds)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.8.4.2, Expected Sequence 8.1.

27.22.4.2.8.5 Test requirement

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

27.22.4.2.9 GET INKEY (Support of Text Attribute)

27.22.4.2.9.1 GET INKEY (Support of Text Attribute – Left Alignment)

27.22.4.2.9.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.1.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.1.3 Test purpose

To verify that the ME displays the text formatted according to the left alignment text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.1.4 Method of test

27.22.4.2.9.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.2.9.1.4.2 Procedure

#### **Expected Sequence 9.1 (GET INKEY, Text attribute with Left Alignment )**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.1.4.2, Expected Sequence 9.1.

27.22.4.2.9.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.1.

#### 27.22.4.2.9.2 GET INKEY (Support of Text Attribute – Center Alignment)

##### 27.22.4.2.9.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.9.2.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

##### 27.22.4.2.9.2.3 Test purpose

To verify that the ME displays the text formatted according to the center alignment text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.2.9.2.4 Method of test

###### 27.22.4.2.9.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

###### 27.22.4.2.9.2.4.2 Procedure

#### **Expected Sequence 9.2 (GET INKEY, Text attribute with Center Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.2.4.2, Expected Sequence 9.2.

##### 27.22.4.2.9.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.2.

#### 27.22.4.2.9.3 GET INKEY (Support of Text Attribute – Right Alignment)

##### 27.22.4.2.9.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.9.3.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

##### 27.22.4.2.9.3.3 Test purpose

To verify that the ME displays the text formatted according to the right alignment text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.3.4 Method of test

27.22.4.2.9.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.2.9.3.4.2 Procedure

#### **Expected Sequence 9.3 (GET INKEY, Text attribute with Right Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.3.4.2, Expected Sequence 9.3.

27.22.4.2.9.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.3.

27.22.4.2.9.4 GET INKEY (Support of Text Attribute – Large Font Size)

27.22.4.2.9.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.4.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.4.3 Test purpose

To verify that the ME displays the text formatted according to the large font size text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.4.4 Method of test

27.22.4.2.9.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.2.9.4.4.2 Procedure

#### **Expected Sequence 9.4 (GET INKEY, Text attribute with Large Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.4.4.2, Expected Sequence 9.4.

27.22.4.2.9.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.4.

#### 27.22.4.2.9.5 GET INKEY (Support of Text Attribute – Small Font Size)

##### 27.22.4.2.9.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.9.5.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

##### 27.22.4.2.9.5.3 Test purpose

To verify that the ME displays the text formatted according to the small font size text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.2.9.5.4 Method of test

###### 27.22.4.2.9.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

###### 27.22.4.2.9.5.4.2 Procedure

#### **Expected Sequence 9.5 (GET INKEY, Text attribute with Small Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.5.4.2, Expected Sequence 9.5.

##### 27.22.4.2.9.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.5.

#### 27.22.4.2.9.6 GET INKEY (Support of Text Attribute – Bold On)

##### 27.22.4.2.9.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.9.6.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

##### 27.22.4.2.9.6.3 Test purpose

To verify that the ME displays the text formatted according to the bold text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.6.4 Method of test

27.22.4.2.9.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.2.9.6.4.2 Procedure

#### **Expected Sequence 9.6 (GET INKEY, Text attribute with Bold On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.6.4.2, Expected Sequence 9.6.

27.22.4.2.9.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.6.

27.22.4.2.9.7 GET INKEY (Support of Text Attribute – Italic On)

27.22.4.2.9.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.7.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.7.3 Test purpose

To verify that the ME displays the text formatted according to the italic text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.7.4 Method of test

27.22.4.2.9.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.2.9.7.4.2 Procedure

#### **Expected Sequence 9.7 (GET INKEY, Text attribute with Italic On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.7.4.2, Expected Sequence 9.7.

27.22.4.2.9.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.7.

#### 27.22.4.2.9.8 GET INKEY (Support of Text Attribute – Underline On)

##### 27.22.4.2.9.8.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.9.8.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

##### 27.22.4.2.9.8.3 Test purpose

To verify that the ME displays the text formatted according to the underline text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.2.9.8.4 Method of test

###### 27.22.4.2.9.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

###### 27.22.4.2.9.8.4.2 Procedure

#### **Expected Sequence 9.8 (GET INKEY, Text attribute with Underline On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.8.4.2, Expected Sequence 9.8.

##### 27.22.4.2.9.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.8.

#### 27.22.4.2.9.9 GET INKEY (Support of Text Attribute – Strikethrough On)

##### 27.22.4.2.9.9.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.9.9.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

##### 27.22.4.2.9.9.3 Test purpose

To verify that the ME displays the text formatted according to the strikethrough text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.



27.22.4.2.9.9.4 Method of test

27.22.4.2.9.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.2.9.9.4.2 Procedure

#### **Expected Sequence 9.9 (GET INKEY, Text attribute with Strikethrough On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.9.4.2, Expected Sequence 9.9.

27.22.4.2.9.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.9.

27.22.4.2.9.10 GET INKEY (Support of Text Attribute – Foreground and Background Colour)

27.22.4.2.9.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.2.9.10.2 Conformance requirement

The ME shall support the GET INKEY command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.5.4, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.8, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3, clause 8.31 and clause 8.70.

27.22.4.2.9.10.3 Test purpose

To verify that the ME displays the text formatted according to the foreground and background colour text attribute configuration contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.2.9.10.4 Method of test

27.22.4.2.9.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.2.9.10.4.2 Procedure

#### **Expected Sequence 9.10 (GET INKEY, Text attribute with Foreground and Background Colour)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.9.10.4.2, Expected Sequence 9.10.

27.22.4.2.9.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.10.

#### 27.22.4.2.10 GET INKEY (UCS2 display in Chinese)

##### 27.22.4.2.10.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.10.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

##### 27.22.4.2.10.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.2.10.4 Method of test

###### 27.22.4.2.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

###### 27.22.4.2.10.4.2 Procedure

#### **Expected Sequence 10.1 (GET INKEY, Text String coding in UCS2 Alphabet - Chinese characters, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.10.4.2, Expected Sequence 10.1.

#### **Expected Sequence 10.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet - Chinese characters, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.10.4.2, Expected Sequence 10.2.

##### 27.22.4.2.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 10.1 to 10.2.

#### 27.22.4.2.11 GET INKEY (UCS2 entry in Chinese)

##### 27.22.4.2.11.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.11.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

#### 27.22.4.2.11.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

#### 27.22.4.2.11.4 Method of test

##### 27.22.4.2.11.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

##### 27.22.4.2.11.4.2 Procedure

#### **Expected Sequence 11.1 (GET INKEY, characters from UCS2 alphabet - Chinese characters, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.11.4.2, Expected Sequence 11.1.

##### 27.22.4.2.11.5 Test requirement

The ME shall operate in the manner defined in expected sequence 11.1

#### 27.22.4.2.12 GET INKEY (UCS2 display in Katakana)

##### 27.22.4.2.12.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.12.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

##### 27.22.4.2.12.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.2.12.4 Method of test

##### 27.22.4.2.12.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

#### 27.22.4.2.12.4.2 Procedure

##### **Expected Sequence 12.1 (GET INKEY, Text String coding in UCS2 Alphabet - Katakana characters, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.12.4.2, Expected Sequence 12.1.

##### **Expected Sequence 12.2 (GET INKEY, max length for the Text String coding in UCS2 Alphabet - Katakana characters, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.12.4.2, Expected Sequence 12.2.

#### 27.22.4.2.12.5 Test requirement

The ME shall operate in the manner defined in expected sequence 12.1 to 12.2.

#### 27.22.4.2.13 GET INKEY (UCS2 entry in Katakana)

##### 27.22.4.2.13.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.2.13.2 Conformance requirement

The ME shall support the GET INKEY command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.2, clause 6.6.2, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

##### 27.22.4.2.13.3 Test purpose

To verify that the ME displays the text contained in the GET INKEY proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.2.13.4 Method of test

###### 27.22.4.2.13.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

###### 27.22.4.2.13.4.2 Procedure

##### **Expected Sequence 13.1 (GET INKEY, characters from UCS2 alphabet - Katakana characters, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.2.13.4.2, Expected Sequence 13.1.

##### 27.22.4.2.13.5 Test requirement

The ME shall operate in the manner defined in expected sequence 13.1

### 27.22.4.3 GET INPUT

#### 27.22.4.3.1 GET INPUT (normal)

##### 27.22.4.3.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.3.1.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

##### 27.22.4.3.1.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.3.1.4 Method of test

###### 27.22.4.3.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

###### 27.22.4.3.1.4.2 Procedure

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.1.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.2.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.3.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.4.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.5.

###### **Expected Sequence 1.6 (GET INPUT, backwards move)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.6.

**Expected Sequence 1.7 (GET INPUT, abort)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.7.

**Expected Sequence 1.8 (GET INPUT, digits only, SMS default alphabet, ME to echo text, ME supporting 8 bit data Message)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.8.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.9.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.1.4.2, Expected Sequence 1.10.

**27.22.4.3.1.5 Test requirement**

The ME shall operate in the manner defined in expected sequences 1.1 to 1.10.

**27.22.4.3.2 GET INPUT (No response from User)****27.22.4.3.2.1 Definition and applicability**

See clause 3.2.2.

**27.22.4.3.2.2 Conformance requirement**

The ME shall support the GET INPUT command as defined in the following technical specifications :

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

**27.22.4.3.2.3 Test purpose**

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns a "No response from user" result value in the TERMINAL RESPONSE command send to the UICC.

**27.22.4.3.2.4 Method of test****27.22.4.3.2.4.1 Initial conditions**

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

ME Manufacturers shall set the "no response from user" period of time as declared in table A.2/3.

The USIM Simulator shall be set to that period of time.

**27.22.4.3.2.4.2 Procedure****Expected Sequence 2.1 (GET INPUT, no response from the user)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.2.4.2, Expected Sequence 2.1.

## 27.22.4.3.2.5 Test requirement

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

## 27.22.4.3.3 GET INPUT (UCS2 display in Cyrillic)

## 27.22.4.3.3.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.3.3.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

## 27.22.4.3.3.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

## 27.22.4.3.3.4 Method of test

## 27.22.4.3.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

## 27.22.4.3.3.4.2 Procedure

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.3.4.2, Expected Sequence 3.1.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.3.4.2, Expected Sequence 3.2.

## 27.22.4.3.3.5 Test requirement

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

## 27.22.4.3.4 GET INPUT (UCS2 entry in Cyrillic)

## 27.22.4.3.4.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.3.4.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

#### 27.22.4.3.4.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

#### 27.22.4.3.4.4 Method of test

##### 27.22.4.3.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

##### 27.22.4.3.4.4.2 Procedure

#### **Expected Sequence 4.1 (GET INPUT, character set from UCS2 alphabet in Cyrillic, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.4.4.2, Expected Sequence 4.1.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.4.4.2, Expected Sequence 4.2.

#### 27.22.4.3.4.5 Test requirement

The ME shall operate in the manner defined in expected sequences 4.1 to 4.2.

#### 27.22.4.3.5 GET INPUT (default text)

##### 27.22.4.3.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.3.5.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.23.

##### 27.22.4.3.5.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.



## 27.22.4.3.5.4 Method of test

## 27.22.4.3.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

## 27.22.4.3.5.4.2 Procedure

**Expected Sequence 5.1 (GET INPUT, default text for the input, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.5.4.2, Expected Sequence 5.1.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.5.4.2, Expected Sequence 5.2.

## 27.22.4.3.5.5 Test requirement

The ME shall operate in the manner defined in expected sequences 5.1 to 5.2.

## 27.22.4.3.6 GET INPUT (display of Icon)

## 27.22.4.3.6.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.3.6.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.5.4, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 12.31.

## 27.22.4.3.6.3 Test purpose

To verify that the ME displays the Icon contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

## 27.22.4.3.6.4 Method of test

## 27.22.4.3.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

## 27.22.4.3.6.4.2 Procedure

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.1A.

**Expected Sequence 6.1B (GET INPUT, Basic icon, self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.1B.

**Expected Sequence 6.2A (GET INPUT, Basic icon, non self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.2A.

**Expected Sequence 6.2B (GET INPUT, Basic icon, non self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.2B.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.3A.

**Expected Sequence 6.3B (GET INPUT, Colour icon, self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.3B.

**Expected Sequence 6.4A (GET INPUT, Colour icon, non self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.4A.

**Expected Sequence 6.4B (GET INPUT, Colour icon, non self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.6.4.2, Expected Sequence 6.4B.

**27.22.4.3.6.5 Test Requirement**

The ME shall operate in the manner defined in expected sequences 6.1A to 6.4B.

**27.22.4.3.7 GET INPUT (Help Information)****27.22.4.3.7.1 Definition and applicability**

See clause 3.2.2.

**27.22.4.3.7.2 Conformance requirement**

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

**27.22.4.3.7.3 Test purpose**

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns a 'help information required by the user' result value in the TERMINAL RESPONSE command sent to the UICC if the user has indicated the need to get help information.

**27.22.4.3.7.4 Method of test****27.22.4.3.7.4.1 Initial conditions**

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

#### 27.22.4.3.7.4.2 Procedure

##### **Expected Sequence 7.1 (GET INPUT, digits only, ME to echo text, ME supporting 8 bit data Message, help information available)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.7.4.2, Expected Sequence 7.1.

#### 27.22.4.3.7.5 Test requirement

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

#### 27.22.4.3.8 GET INPUT (Support of Text Attribute)

##### 27.22.4.3.8.1 GET INPUT (Support of Text Attribute – Left Alignment)

###### 27.22.4.3.8.1.1 Definition and applicability

See clause 3.2.2.

###### 27.22.4.3.8.1.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

###### 27.22.4.3.8.1.3 Test purpose

To verify that the ME displays the text formatted according to the left alignment text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

###### 27.22.4.3.8.1.4 Method of test

###### 27.22.4.3.8.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

###### 27.22.4.3.8.1.4.2 Procedure

##### **Expected Sequence 8.1 (GET INPUT, Text attribute – Left Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.1.4.2, Expected Sequence 8.1.

###### 27.22.4.3.8.1.5 Test requirement

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

##### 27.22.4.3.8.2 GET INPUT (Support of Text Attribute – Center Alignment)

###### 27.22.4.3.8.2.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.3.8.2.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

#### 27.22.4.3.8.2.3 Test purpose

To verify that the ME displays the text formatted according to the center alignment text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

#### 27.22.4.3.8.2.4 Method of test

##### 27.22.4.3.8.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

##### 27.22.4.3.8.2.4.2 Procedure

#### **Expected Sequence 8.2 (GET INPUT, Text attribute – Center Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.2.4.2, Expected Sequence 8.2.

##### 27.22.4.3.8.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.2.

#### 27.22.4.3.8.3 GET INPUT (Support of Text Attribute – Right Alignment)

##### 27.22.4.3.8.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.3.8.3.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

##### 27.22.4.3.8.3.3 Test purpose

To verify that the ME displays the text formatted according to the right alignment text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.3.8.3.4 Method of test

##### 27.22.4.3.8.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

## 27.22.4.3.8.3.4.2 Procedure

**Expected Sequence 8.3 (GET INPUT, Text attribute – Right Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.3.4.2, Expected Sequence 8.3.

## 27.22.4.3.8.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.3.

## 27.22.4.3.8.4 GET INPUT (Support of Text Attribute – Large Font Size)

## 27.22.4.3.8.4.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.3.8.4.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

## 27.22.4.3.8.4.3 Test purpose

To verify that the ME displays the text formatted according to the large font size text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

## 27.22.4.3.8.4.4 Method of test

## 27.22.4.3.8.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

## 27.22.4.3.8.4.4.2 Procedure

**Expected Sequence 8.4 (GET INPUT, Text attribute – Large Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.4.4.2, Expected Sequence 8.4.

## 27.22.4.3.8.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.4.

## 27.22.4.3.8.5 GET INPUT (Support of Text Attribute – Small Font Size)

## 27.22.4.3.8.5.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.3.8.5.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

#### 27.22.4.3.8.5.3 Test purpose

To verify that the ME displays the text formatted according to the small font size text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

#### 27.22.4.3.8.5.4 Method of test

##### 27.22.4.3.8.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

##### 27.22.4.3.8.5.4.2 Procedure

#### **Expected Sequence 8.5 (GET INPUT, Text attribute – Small Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.5.4.2, Expected Sequence 8.5.

##### 27.22.4.3.8.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.5.

#### 27.22.4.3.8.6 GET INPUT (Support of Text Attribute – Bold On)

##### 27.22.4.3.8.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.3.8.6.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

##### 27.22.4.3.8.6.3 Test purpose

To verify that the ME displays the text formatted according to the bold text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.3.8.6.4 Method of test

##### 27.22.4.3.8.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

##### 27.22.4.3.8.6.4.2 Procedure

#### **Expected Sequence 8.6 (GET INPUT, Text attribute – Bold On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.6.4.2, Expected Sequence 8.6.

## 27.22.4.3.8.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.6.

## 27.22.4.3.8.7 GET INPUT (Support of Text Attribute – Italic On)

## 27.22.4.3.8.7.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.3.8.7.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

## 27.22.4.3.8.7.3 Test purpose

To verify that the ME displays the text formatted according to the italic text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

## 27.22.4.3.8.7.4 Method of test

## 27.22.4.3.8.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

## 27.22.4.3.8.7.4.2 Procedure

**Expected Sequence 8.7 (GET INPUT, Text attribute – Italic On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.7.4.2, Expected Sequence 8.7.

## 27.22.4.3.8.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.7.

## 27.22.4.3.8.8 GET INPUT (Support of Text Attribute – Underline On)

## 27.22.4.3.8.8.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.3.8.8.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

## 27.22.4.3.8.8.3 Test purpose

To verify that the ME displays the text formatted according to the underline text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.8.4 Method of test

27.22.4.3.8.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.3.8.8.4.2 Procedure

**Expected Sequence 8.8 (GET INPUT, Text attribute – Underline On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.8.4.2, Expected Sequence 8.8.

27.22.4.3.8.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.8.

27.22.4.3.8.9 GET INPUT (Support of Text Attribute – Strikethrough On)

27.22.4.3.8.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.3.8.9.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

27.22.4.3.8.9.3 Test purpose

To verify that the ME displays the text formatted according to the strikethrough text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.3.8.9.4 Method of test

27.22.4.3.8.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.3.8.9.4.2 Procedure

**Expected Sequence 8.9 (GET INPUT, Text attribute – Strikethrough On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.9.4.2, Expected Sequence 8.9.

27.22.4.3.8.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.9.



#### 27.22.4.3.8.10 GET INPUT (Support of Text Attribute – Foreground and Background Colour)

##### 27.22.4.3.8.10.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.3.8.10.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2, clause 8.15.3 and clause 8.70.

##### 27.22.4.3.8.10.3 Test purpose

To verify that the ME displays the text formatted according to the fore- and background colour text attribute configuration contained in the GET INPUT proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.3.8.10.4 Method of test

###### 27.22.4.3.8.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

###### 27.22.4.3.8.10.4.2 Procedure

#### **Expected Sequence 8.10 (GET INPUT, Text attribute – Foreground and Background Colour)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.8.10.4.2, Expected Sequence 8.10.

##### 27.22.4.3.8.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 8.10.

#### 27.22.4.3.9 GET INPUT (UCS2 display in Chinese)

##### 27.22.4.3.9.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.3.9.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

##### 27.22.4.3.9.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

## 27.22.4.3.9.4 Method of test

## 27.22.4.3.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

## 27.22.4.3.9.4.2 Procedure

**Expected Sequence 9.1 (GET INPUT, text string coding in UCS2 - Chinese characters, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.9.4.2, Expected Sequence 9.1.

**Expected Sequence 9.2 (GET INPUT, max length for the text string coding in UCS2 - Chinese characters, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.9.4.2, Expected Sequence 9.2.

## 27.22.4.3.9.5 Test requirement

The ME shall operate in the manner defined in expected sequences 9.1 to 9.2

## 27.22.4.3.10 GET INPUT (UCS2 entry in Chinese)

## 27.22.4.3.10.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.3.10.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

## 27.22.4.3.10.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

## 27.22.4.3.10.4 Method of test

## 27.22.4.3.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

## 27.22.4.3.10.4.2 Procedure

**Expected Sequence 10.1 (GET INPUT, character set from UCS2 alphabet - Chinese characters, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.10.4.2, Expected Sequence 10.1.

**Expected Sequence 10.2 (GET INPUT, character set from UCS2 alphabet - Chinese characters, Max length for the input, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.10.4.2, Expected Sequence 10.2.

## 27.22.4.3.10.5 Test requirement

The ME shall operate in the manner defined in expected sequences 10.1 to 10.2

## 27.22.4.3.11 GET INPUT (UCS2 display in Katakana)

## 27.22.4.3.11.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.3.11.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

## 27.22.4.3.11.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

## 27.22.4.3.11.4 Method of test

## 27.22.4.3.11.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

## 27.22.4.3.11.4.2 Procedure

**Expected Sequence 11.1 (GET INPUT, text string coding in UCS2 in Katakana, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.11.4.2, Expected Sequence 11.1.

**Expected Sequence 11.2 (GET INPUT, max length for the text string coding in UCS2 in Katakana, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.11.4.2, Expected Sequence 11.2.

#### 27.22.4.3.11.5 Test requirement

The ME shall operate in the manner defined in expected sequences 11.1 to 11.2

#### 27.22.4.3.12 GET INPUT (UCS2 entry in Katakana)

##### 27.22.4.3.12.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.3.12.2 Conformance requirement

The ME shall support the GET INPUT command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.11, clause 8.15, clause 8.15.1, clause 8.15.2 and clause 8.15.3.

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

##### 27.22.4.3.12.3 Test purpose

To verify that the ME displays the text contained in the GET INPUT proactive UICC command, and returns the text string entered in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.3.12.4 Method of test

###### 27.22.4.3.12.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

###### 27.22.4.3.12.4.2 Procedure

###### **Expected Sequence 12.1 (GET INPUT, character set from UCS2 alphabet in Katakana, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.12.4.2, Expected Sequence 12.1.

###### **Expected Sequence 12.2 (GET INPUT, character set from UCS2 alphabet in Katakana, Max length for the input, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.3.12.4.2, Expected Sequence 12.2.

#### 27.22.4.3.12.5 Test requirement

The ME shall operate in the manner defined in expected sequences 12.1 to 12.2.

#### 27.22.4.4 MORE TIME

##### 27.22.4.4.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.4.2 Conformance requirement

The ME shall support the MORE TIME command as defined in:

- TS 31.111 [15] clause 6.4.4, clause 6.6.4, clause 5.2, clause 8.6 and clause 8.7.

#### 27.22.4.4.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (OK) to the UICC after the ME receives the MORE TIME proactive UICC command.

#### 27.22.4.4.4 Method of test

##### 27.22.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

##### 27.22.4.4.4.2 Procedure

#### **Expected Sequence 1.1 (MORE TIME)**

See ETSI TS 102 384 [26] in subclause 27.22.4.4.4.2, Expected Sequence 1.1.

##### 27.22.4.4.5 Test requirement

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

#### 27.22.4.5 PLAY TONE

##### 27.22.4.5.1 PLAY TONE (Normal)

###### 27.22.4.5.1.1 Definition and applicability

See clause 3.2.2.

###### 27.22.4.5.1.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

###### 27.22.4.5.1.3 Test purpose

To verify that the ME plays an audio tone of a type and duration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME plays the requested audio tone through the earpiece whilst not in call and shall superimpose the tone on top of the downlink audio whilst in call.

To verify that the ME displays the text contained in the PLAY TONE proactive UICC command.

###### 27.22.4.5.1.4 Method of test

###### 27.22.4.5.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as Toolkit default.

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

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

## 27.22.4.5.1.4.2 Procedure

**Expected Sequence 1.1 (PLAY TONE)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: PLAY<br>TONE 1.1.1   |   |
| 4    | ME → USER | Display "Dial Tone"<br>Play a standard supervisory dial<br>tone through the external ringer for<br>a duration of 5 s    |   |
| 5    | ME → UICC | TERMINAL RESPONSE: PLAY<br>TONE 1.1.1   | [Command performed successfully]  |
| 6    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 7    | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.2   |   |
| 8    | ME → UICC | FETCH   |   |
| 9    | UICC → ME | PROACTIVE COMMAND: PLAY<br>TONE 1.1.2   |   |
| 10   | ME → USER | Display "Sub. Busy"<br>Play a standard supervisory called<br>subscriber busy tone for a duration<br>of 5 s              |   |
| 11   | ME → UICC | TERMINAL RESPONSE: PLAY<br>TONE 1.1.2   | [Command performed successfully]  |
| 12   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 13   | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.3   |   |
| 14   | ME → UICC | FETCH   |   |
| 15   | UICC → ME | PROACTIVE COMMAND: PLAY<br>TONE 1.1.3   |   |
| 16   | ME → USER | Display "Congestion"<br>Play a standard supervisory<br>congestion tone for a duration of 5<br>s                         |   |
| 17   | ME → UICC | TERMINAL RESPONSE: PLAY<br>TONE 1.1.3   | [Command performed successfully]  |
| 18   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 19   | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.4   |   |
| 20   | ME → UICC | FETCH   |   |
| 21   | UICC → ME | PROACTIVE COMMAND: PLAY<br>TONE 1.1.4   |   |
| 22   | ME → USER | Display "RP Ack"<br>Play a standard supervisory radio<br>path acknowledgement tone                                      |   |
| 23   | ME → UICC | TERMINAL RESPONSE: PLAY<br>TONE 1.1.4   | [Command performed successfully]  |
| 24   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 25   | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.5   |   |
| 26   | ME → UICC | FETCH   |   |
| 27   | UICC → ME | PROACTIVE COMMAND: PLAY<br>TONE 1.1.5   |   |
| 28   | ME → USER | Display "No RP"<br>Play a standard supervisory radio<br>path not available / call dropped<br>tone for a duration of 5 s | [Note: The ME will only play three bursts as<br>specified in TS 22.001 [2]] |
| 29   | ME → UICC | TERMINAL RESPONSE: PLAY<br>TONE 1.1.5   | [Command performed successfully]  |

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 30   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 31   | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.6   |  |
| 32   | ME → UICC | FETCH   |  |
| 33   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.6  |  |
| 34   | ME → USER | Display "Spec Info"<br>Play a standard supervisory error / special information tone for a duration of 5 s           |  |
| 35   | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.1.6  | [Command performed successfully]                           |
| 36   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 37   | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.7   |  |
| 38   | ME → UICC | FETCH   |  |
| 39   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.7  |  |
| 40   | ME → USER | Display "Call Wait"<br>Play a standard supervisory call waiting tone for a duration of 5 s                          |  |
| 41   | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.1.7  | [Command performed successfully]                           |
| 42   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 43   | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.8   |  |
| 44   | ME → UICC | FETCH   |  |
| 45   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.8  |  |
| 46   | ME → USER | Display "Ring Tone"<br>Play a standard supervisory ringing tone for duration of 5 s                                 |  |
| 47   | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.1.8  | [Command performed successfully]                           |
| 48   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 49   | USER → ME | Set up a voice call   | [ User dials 123456789 to connect to the network manually] |
| 50   | ME → USS  | Establish voice call  | [Voice call is established]                                |
| 51   | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.1   |  |
| 52   | ME → UICC | FETCH   |  |
| 53   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.1  |  |
| 54   | ME → USER | Display "Dial Tone"<br>Superimpose the standard supervisory dial tone on the audio downlink for the duration of 5 s |  |
| 55   | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.1.1  | [Command performed successfully]                           |
| 56   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 57   | USER → ME | The user ends the call  |  |
| 58   | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.1.9   |  |
| 59   | ME → UICC | FETCH   |  |
| 60   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.9  |  |



| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 61   | ME → USER | Display "This command instructs the ME to play an audio tone. Upon receiving this command, the ME shall check if it is currently in, or in the process of setting up (SET-UP message sent to the network, see GSM"04.08"(8)), a speech call. - If the ME I" |  |
| 62   | ME → UICC | Play a general beep<br>TERMINAL RESPONSE: PLAY TONE 1.1.9a<br>or<br>TERMINAL RESPONSE: PLAY TONE 1.1.9b   | [Command performed successfully]<br>or<br>[Command beyond ME's capabilities] |
| 63   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 64   | UICC → ME | PROACTIVE COMMAND PENDING: PLAY TONE 1.1.10   |  |
| 65   | ME → UICC | FETCH   |  |
| 66   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.10   |  |
| 67   | ME → USER | Display "Beep"<br>Play a ME proprietary general beep  |  |
| 68   | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.1.10a<br>Or<br>TERMINAL RESPONSE: PLAY TONE 1.1.10b  | [Command performed successfully]<br>or<br>[Command beyond ME's capabilities] |
| 69   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 70   | UICC → ME | PROACTIVE COMMAND PENDING: PLAY TONE 1.1.11   |  |
| 71   | ME → UICC | FETCH   |  |
| 72   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.11   |  |
| 73   | ME → USER | Display "Positive"<br>Play a ME proprietary positive acknowledgement tone   |  |
| 74   | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.1.11a<br>or<br>TERMINAL RESPONSE: PLAY TONE 1.1.11b  | [Command performed successfully]<br>or<br>[Command beyond ME's capabilities] |
| 75   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 76   | UICC → ME | PROACTIVE COMMAND PENDING: PLAY TONE 1.1.12   |  |
| 77   | ME → UICC | FETCH   |  |
| 78   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.12   |  |
| 79   | ME → USER | Display "Negative"<br>Play a ME proprietary negative acknowledgement tone   |  |
| 80   | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.1.12a<br>or<br>TERMINAL RESPONSE: PLAY TONE 1.1.12b  | [Command performed successfully]<br>or<br>[Command beyond ME's capabilities] |
| 81   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 82   | UICC → ME | PROACTIVE COMMAND PENDING: PLAY TONE 1.1.13   |  |
| 83   | ME → UICC | FETCH   |  |
| 84   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.13   |  |

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 85   | ME → USER | Display "Quick"<br>Play a ME proprietary general beep  |   |
| 86   | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.1.13a<br>or<br>TERMINAL RESPONSE: PLAY TONE 1.1.13b   | [Command performed successfully]<br>or<br>[Command beyond ME's capabilities]  |
| 87   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 88   | UICC → ME | PROACTIVE COMMAND PENDING: PLAY TONE 1.1.14  |   |
| 89   | ME → UICC | FETCH  |   |
| 90   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.14  |   |
| 91   | ME → USER | Display "<ABORT>"<br>Play an ME Error / Special information tone until user aborts this command (the command shall be aborted by the user within 1 minute) |   |
| 92   | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.1.14  | [Proactive UICC session terminated by the user]   |
| 93   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 94   | UICC → ME | PROACTIVE COMMAND PENDING: PLAY TONE 1.1.15  |   |
| 95   | ME → UICC | FETCH  |   |
| 96   | UICC → ME | PROACTIVE COMMAND: PLAY TONE 1.1.15  | [No alpha identifier, no tone tag, no duration tag]   |
| 97   | ME → User | ME plays general beep, or if not supported any (defined by ME-manufacturer) other supported tone   | [ME uses default duration defined by ME-manufacturer]   |
| 98   | ME → UICC | TERMINAL RESPONSE: PLAY TONE 1.1.15  | [Command performed successfully], [ME uses general beep, or if not supported any (defined by ME-manufacturer) other supported tone, uses default duration defined by ME-manufacturer] |
| 99   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |

For coding, see ETSI TS 102 384 [26] in subclause 27.22.4.5.1.4.2, Expected Sequence 1.1.

#### 27.22.4.5.1.5 Test requirement

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

#### 27.22.4.5.2 PLAY TONE (UCS2 display in Cyrillic)

##### 27.22.4.5.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.5.2.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

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

#### 27.22.4.5.2.3 Test purpose

To verify that the ME displays the text contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME plays the requested audio tone through the earpiece.

#### 27.22.4.5.2.4 Method of test

##### 27.22.4.5.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

##### 27.22.4.5.2.4.2 Procedure

#### **Expected Sequence 2.1 (PLAY TONE, character set from UCS2 alphabet in Russian, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.2.4.2, Expected Sequence 2.1.

##### 27.22.4.5.2.5 Test requirement

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

#### 27.22.4.5.3 PLAY TONE (display of Icon)

##### 27.22.4.5.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.5.3.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8 and clause 8.31.

##### 27.22.4.5.3.3 Test purpose

To verify that the ME plays an audio tone of a type and duration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME plays the requested audio tone through the earpiece.

To verify that the ME displays the icon contained in the PLAY TONE proactive UICC command.

##### 27.22.4.5.3.4 Method of test

##### 27.22.4.5.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

## 27.22.4.5.3.4.2 Procedure

**Expected Sequence 3.1A (PLAY TONE, Basic icon, self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.1A.

**Expected Sequence 3.1B (PLAY TONE, Basic icon, self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.1B.

**Expected Sequence 3.2A (PLAY TONE, Basic icon, non self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.2A.

**Expected Sequence 3.2B (PLAY TONE, Basic icon, non self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.2B.

**Expected Sequence 3.3A (PLAY TONE, Colour icon, self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.3A.

**Expected Sequence 3.3B (PLAY TONE, Colour icon, self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.3B.

**Expected Sequence 3.4A (PLAY TONE, Colour icon, non self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.4A.

**Expected Sequence 3.4B (PLAY TONE, Colour icon, non self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.3.4.2, Expected Sequence 3.4B.

## 27.22.4.5.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 3.1A to 3.4B.

## 27.22.4.5.4 PLAY TONE (Support of Text Attribute)

## 27.22.4.5.4.1 PLAY TONE (Support of Text Attribute – Left Alignment)

## 27.22.4.5.4.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.5.4.1.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

## 27.22.4.5.4.1.3 Test purpose

To verify that the ME displays the text formatted according to the left alignment text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.1.4 Method of test

27.22.4.5.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.5.4.1.4.2 Procedure

#### **Expected Sequence 4.1 (PLAY TONE, Text Attribute – Left Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.1.4.2, Expected Sequence 4.1.

27.22.4.5.4.1.5 Test Requirement

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

27.22.4.5.4.2 PLAY TONE (Support of Text Attribute – Center Alignment)

27.22.4.5.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.2.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.2.3 Test purpose

To verify that the ME displays the text formatted according to the center alignment text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.2.4 Method of test

27.22.4.5.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.5.4.2.4.2 Procedure

#### **Expected Sequence 4.2 (PLAY TONE, Text Attribute – Centre Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.2.4.2, Expected Sequence 4.2.

27.22.4.5.4.2.5 Test Requirement

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

#### 27.22.4.5.4.3 PLAY TONE (Support of Text Attribute – Right Alignment)

##### 27.22.4.5.4.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.5.4.3.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

##### 27.22.4.5.4.3.3 Test purpose

To verify that the ME displays the text formatted according to the right alignment text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.5.4.3.4 Method of test

###### 27.22.4.5.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

###### 27.22.4.5.4.3.4.2 Procedure

#### **Expected Sequence 4.3 (PLAY TONE, Text Attribute – Right Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.3.4.2, Expected Sequence 4.3.

##### 27.22.4.5.4.3.5 Test Requirement

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

#### 27.22.4.5.4.4 PLAY TONE (Support of Text Attribute – Large Font Size)

##### 27.22.4.5.4.4.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.5.4.4.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

##### 27.22.4.5.4.4.3 Test purpose

To verify that the ME displays the text formatted according to the large font size text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.4.4 Method of test

27.22.4.5.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.5.4.4.4.2 Procedure

#### **Expected Sequence 4.4 (PLAY TONE, Text Attribute – Large Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.4.4.2, Expected Sequence 4.4.

27.22.4.5.4.4.5 Test Requirement

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

27.22.4.5.4.5 PLAY TONE (Support of Text Attribute – Small Font Size)

27.22.4.5.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.5.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.5.3 Test purpose

To verify that the ME displays the text formatted according to the small font size text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.5.4 Method of test

27.22.4.5.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.5.4.5.4.2 Procedure

#### **Expected Sequence 4.5 (PLAY TONE, Text Attribute – Small Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.5.4.2, Expected Sequence 4.5.

27.22.4.5.4.5.5 Test Requirement

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

#### 27.22.4.5.4.6 PLAY TONE (Support of Text Attribute – Bold On)

##### 27.22.4.5.4.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.5.4.6.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

##### 27.22.4.5.4.6.3 Test purpose

To verify that the ME displays the text formatted according to the bold text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.5.4.6.4 Method of test

###### 27.22.4.5.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

###### 27.22.4.5.4.6.4.2 Procedure

#### **Expected Sequence 4.6 (PLAY TONE, Text Attribute – Bold On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.6.4.2, Expected Sequence 4.6.

##### 27.22.4.5.4.6.5 Test Requirement

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

#### 27.22.4.5.4.7 PLAY TONE (Support of Text Attribute – Italic On)

##### 27.22.4.5.4.7.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.5.4.7.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

##### 27.22.4.5.4.7.3 Test purpose

To verify that the ME displays the text formatted according to the italic text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.



27.22.4.5.4.7.4 Method of test

27.22.4.5.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.5.4.7.4.2 Procedure

#### **Expected Sequence 4.7 (PLAY TONE, Text Attribute – Italic On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.7.4.2, Expected Sequence 4.7.

27.22.4.5.4.7.5 Test Requirement

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

27.22.4.5.4.8 PLAY TONE (Support of Text Attribute – Underline On)

27.22.4.5.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.5.4.8.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

27.22.4.5.4.8.3 Test purpose

To verify that the ME displays the text formatted according to the underline text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

27.22.4.5.4.8.4 Method of test

27.22.4.5.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

27.22.4.5.4.8.4.2 Procedure

#### **Expected Sequence 4.8 (PLAY TONE, Text Attribute – Underline On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.8.4.2, Expected Sequence 4.8.

27.22.4.5.4.8.5 Test Requirement

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

#### 27.22.4.5.4.9 PLAY TONE (Support of Text Attribute – Strikethrough On)

##### 27.22.4.5.4.9.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.5.4.9.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

##### 27.22.4.5.4.9.3 Test purpose

To verify that the ME displays the text formatted according to the strikethrough text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.5.4.9.4 Method of test

###### 27.22.4.5.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

###### 27.22.4.5.4.9.4.2 Procedure

#### **Expected Sequence 4.9 (PLAY TONE, Text Attribute – Strikethrough On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.9.4.2, Expected Sequence 4.9.

##### 27.22.4.5.4.9.5 Test Requirement

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

#### 27.22.4.5.4.10 PLAY TONE (Support of Text Attribute – Foreground and Background Colour)

##### 27.22.4.5.4.10.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.5.4.10.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.5, clause 6.6.5, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.16, clause 8.8, clause 8.31 and clause 8.70.

##### 27.22.4.5.4.10.3 Test purpose

To verify that the ME displays the text formatted according to the foreground and background colour text attribute configuration contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

#### 27.22.4.5.4.10.4 Method of test

##### 27.22.4.5.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

##### 27.22.4.5.4.10.4.2 Procedure

#### **Expected Sequence 4.10 (PLAY TONE, Text Attribute – Foreground and Background Colour)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.4.10.4.2, Expected Sequence 4.10.

##### 27.22.4.5.4.10.5 Test Requirement

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

#### 27.22.4.5.5 PLAY TONE (UCS2 display in Chinese)

##### 27.22.4.5.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.5.5.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

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

##### 27.22.4.5.5.3 Test purpose

To verify that the ME displays the text contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME plays the requested audio tone through the earpiece.

##### 27.22.4.5.5.4 Method of test

##### 27.22.4.5.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

##### 27.22.4.5.5.4.2 Procedure

#### **Expected Sequence 5.1 (PLAY TONE, character set from UCS2 alphabet in Chinese, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.5.4.2, Expected Sequence 5.1.

#### 27.22.4.5.5.5 Test requirement

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

#### 27.22.4.5.6 PLAY TONE (UCS2 display in Katakana)

##### 27.22.4.5.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.5.6.2 Conformance requirement

The ME shall support the PLAY TONE command as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.3, clause 6.6.3, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.16 and clause 8.8.

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

##### 27.22.4.5.6.3 Test purpose

To verify that the ME displays the text contained in the PLAY TONE proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME plays the requested audio tone through the earpiece.

##### 27.22.4.5.6.4 Method of test

###### 27.22.4.5.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

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

###### 27.22.4.5.6.4.2 Procedure

#### **Expected Sequence 6.1 (PLAY TONE, with UCS2 in Katakana, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.5.6.4.2, Expected Sequence 6.1.

##### 27.22.4.5.6.5 Test requirement

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

#### 27.22.4.6 POLL INTERVAL

##### 27.22.4.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.6.2 Conformance requirement

The ME shall support the POLL INTERVAL command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.6, clause 6.6.6, clause 5.2, clause 8.6, clause 8.7 and clause 8.8.

### 27.22.4.6.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (OK) to the UICC after the ME receives the POLL INTERVAL proactive UICC command.

To verify that the ME gives a valid response to the polling interval requested by the UICC.

To verify that the ME sends STATUS commands to the UICC at an interval no longer than the interval negotiated by the UICC.

### 27.22.4.6.4 Method of test

#### 27.22.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

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

#### 27.22.4.6.4.2 Procedure

See ETSI TS 102 384 [26] in subclause 27.22.4.6.4.2, Expected Sequence 1.1.

Note: If the requested poll interval is not supported by the ME, the ME is allowed to use a different one as stated in TS 31.111 [15], subclause 6.4.6.

#### 27.22.4.6.5 Test requirement

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

## 27.22.4.7 REFRESH

### 27.22.4.7.1 REFRESH (normal)

#### 27.22.4.7.1.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.7.1.2 Conformance requirement

The ME shall support the REFRESH command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.7, clause 6.6.13, clause 5.2, clause 8.6, clause 8.7 and clause 8.18.

Consequently the ME shall support the USIM Initialization procedure as defined in:

- TS 31.102 [14] clause 5.1.1.2 and ETSI TS 102 221[13] clause 11.1.2

#### 27.22.4.7.1.3 Test purpose

To verify that the ME performs the Proactive Command – REFRESH in accordance with the Command Qualifier. This shall require the ME to perform:

- the UICC and USIM initialization,
- a re-read of the contents and structure of the EFs on the UICC that have been notified as changed and are either part of initialization or used during the test,
- a restart of the card session,
- a successful return of the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

27.22.4.7.1.4 Method of test

27.22.4.7.1.4.1 Initial conditions

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

The elementary files are coded as Toolkit default except for expected sequence 1.3.

For expected sequence 1.3 the global phonebook shall be present.

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

These values might be overwritten with values defined in the expected sequences itself.

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

27.22.4.7.1.4.2 Procedure

### Expected Sequence 1.1 (REFRESH, USIM Initialization)

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 1.1.1  | [To inform the ME that FDN becomes enabled]                                      |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 1.1.1  |  |
| 4    | UICC      | EF EST contents states FDN enabled   | [New EF EST value: 01]   |
| 5    | ME → UICC | USIM Initialization including send STATUS[P1='01']                                 | [ME performs USIM initialization in accordance with TS 31.111 [15] clause 6.4.7] |
| 6    | ME → UICC | TERMINAL RESPONSE:<br>REFRESH 1.1.1A<br>Or<br>TERMINAL RESPONSE:<br>REFRESH 1.1.1B | [normal ending]<br><br>[additional EFs read]                                     |
| 7    | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 8    | USER → ME | Call setup to "321"  |  |
| 9    | ME → USER | Call set up not allowed  |  |
| 10   | USER → ME | Call setup to "123"  |  |
| 11   | ME → USS  | Setup  | Called party BCD number shall be "123"   |

PROACTIVE COMMAND: REFRESH 1.1.1

Logically:

Command details

Command number: 1  
Command type: REFRESH  
Command qualifier: USIM Initialization

Device identities

Source device: UICC  
Destination device: ME

Coding:

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

TERMINAL RESPONSE: REFRESH 1.1.1A

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

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

## TERMINAL RESPONSE: REFRESH 1.1.1B

## Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: REFRESH performed with additional EFs read

## Coding:

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

**Expected Sequence 1.2 (REFRESH, File Change Notification)**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 1.2.1  | [To inform the ME that EF FDN will be in an updated state, FDN service already enabled] |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 1.2.1  |   |
| 4    | UICC      | Update EF FDN RECORD 1   | [EF FDN record 1 updated to contain the dialling string "0123456789"]                   |
| 5    | ME → UICC | TERMINAL RESPONSE:<br>REFRESH 1.2.1A<br>Or<br>TERMINAL RESPONSE:<br>REFRESH 1.2.1B | [normal ending]<br><br>[additional EFs read]  |
| 6    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |   |
| 7    | USER → ME | Call setup to "123"  |   |
| 8    | ME → USER | Call set up not allowed  |   |
| 9    | USER → ME | Call setup to "0123456789"   |   |
| 10   | ME → USS  | Setup  | Called party BCD number shall be "0123456789"   |

## PROACTIVE COMMAND: REFRESH 1.2.1

## Logically:

## Command details

Command number: 1  
 Command type: REFRESH

Command qualifier: File Change Notification  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 File List: EF FDN

Coding:

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

TERMINAL RESPONSE: REFRESH 1.2.1A

Logically:

Command details  
 Command number: 1  
 Command type: REFRESH  
 Command qualifier: File Change Notification  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: REFRESH 1.2.1B

Logically:

Command details  
 Command number: 1  
 Command type: REFRESH  
 Command qualifier: File Change Notification  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: REFRESH performed with additional EFs read

Coding:

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



**Expected Sequence 1.3 (REFRESH, USIM Initialization and File Change Notification)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 1.3.1  |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 1.3.1  |  |
| 4    | UICC      | Update EF ADN in the global phonebook  | [EF ADN entry 1 of the global phonebook to contain the the new and previously unused alpha identifier "Changed"] |
| 5    | ME → UICC | USIM Initialization including sending STATUS [P1='01']   | [ME performs USIM initialization in accordance with TS 31.111 [15] clause 6.4.7]                                 |
| 6    | ME → UICC | TERMINAL RESPONSE:<br>REFRESH 1.3.1A<br>Or<br>TERMINAL RESPONSE:<br>REFRESH 1.3.1B   | [normal ending]<br><br>[additional EFs read]   |
| 7    | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 8    | USER → ME | Use an MMI dependent procedure to display the entry with the alpha identifier "Changed" stored in record 1 of EF ADN in the global phonebook | [To ensure that EF ADN in the global phonebook has been read after issuing the Refresh command]                  |
| 9    | ME → USER | The ME shall display the alpha identifier "Changed" for record 1 of EF ADN in the global phonebook   |  |

**PROACTIVE COMMAND: REFRESH 1.3.1**

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization and File Change Notification

Device identities

Source device: UICC  
 Destination device: ME  
 File List: ADN in the global phonebook

Coding:

|          |        |    |    |    |    |    |    |    |    |    |    |    |
|----------|--------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0     | 12 | 81 | 03 | 01 | 01 | 02 | 82 | 02 | 81 | 82 | 92 |
|          | Note 1 |    |    |    |    |    |    |    |    |    |    |    |

Note 1: Length and data of the file list TLV depend on the card configuration used in this test. The global phonebook shall be used. The number of changed files shall be set to '01'.

**TERMINAL RESPONSE: REFRESH 1.3.1A**

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization and File Change Notification

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: REFRESH 1.3.1B

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization and File Change Notification

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: REFRESH performed with additional EFs read

Coding:

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

**Expected Sequence 1.4 (REFRESH, USIM Initialization and Full File Change Notification)**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 1.4.1  |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 1.4.1  |   |
| 4    | UICC      | EF EST contents states FDN<br>enabled  | [New EF EST value: 01]  |
| 5    | UICC      | Update EF FDN  | [EF FDN record 1 updated to contain the<br>dialling string "0123456789"]            |
| 6    | ME → UICC | USIM Initialization including send<br>STATUS[P1=01]                                | [ME performs USIM initialization in<br>accordance with TS 31.111 [15] clause 6.4.7] |
| 7    | ME → UICC | TERMINAL RESPONSE:<br>REFRESH 1.4.1A<br>Or<br>TERMINAL RESPONSE:<br>REFRESH 1.4.1B | [normal ending]<br><br>[additional EFs read]  |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |   |
| 9    | USER → ME | Call setup to "321"  |   |
| 10   | ME → USER | Call set up not allowed  |   |
| 11   | USER → ME | Call setup to "0123456789"   |   |
| 12   | ME → USS  | Setup  | Called party BCD number shall be<br>"0123456789"                                    |

PROACTIVE COMMAND: REFRESH 1.4.1

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization and Full File Change Notification

## Device identities

Source device: UICC  
 Destination device: ME

Coding:

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

TERMINAL RESPONSE: REFRESH 1.4.1A

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization and Full file Change Notification

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

TERMINAL RESPONSE: REFRESH 1.4.1B

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization and full File change Notification

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: REFRESH performed with additional EFs read

Coding:

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

### Expected Sequence 1.5 (REFRESH, UICC Reset)

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 1.5.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 1.5.1   |   |
| 4    | ME → UICC | STATUS[P1='02']   | ME indicates to USIM that the termination procedure is starting |
| 5    | ME → UICC | ME resets the UICC, performs USIM initialisation, including send STATUS[P1='01'] and no TERMINAL RESPONSE shall be sent |   |

PROACTIVE COMMAND: REFRESH 1.5.1

Logically:

Command details

Command number: 1  
 Command type: REFRESH

Command qualifier: UICC Reset  
 Device identities  
 Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |  |
|----------|----|----|----|----|----|----|----|----|----|----|----|--|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 01 | 04 | 82 | 02 | 81 | 82 |  |
|----------|----|----|----|----|----|----|----|----|----|----|----|--|

### Expected Sequence 1.6 (REFRESH, USIM Initialization after SMS-PP data download)

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | ME        | The ME shall be in its normal idle mode  | [Start a sequence to verify that the ME returns the RP-ACK message back to the USS, if the UICC responds with '90 00'] |
| 2    | USS → ME  | SMS-PP Data Download Message 1.6.1   |  |
| 3    | ME → USER | The ME shall not display the message or alert the user of a short message waiting  |  |
| 4    | ME → UICC | ENVELOPE: SMS-PP<br>DOWNLOAD 1.6.1   |  |
| 5    | UICC → ME | SW1/SW2 of '90 00'   |  |
| 6    | ME → USS  | RP-ACK   |  |
| 7    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 1.1.1  |  |
| 8    | ME → UICC | FETCH  |  |
| 9    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 1.1.1  |  |
| 10   | UICC      | EF EST contents states FDN enabled   | [New EF EST value: 01]   |
| 11   | ME → UICC | USIM Initialization including send STATUS[P1='01']                                 | [ME performs USIM initialization in accordance with TS 31.111 [15] clause 6.4.7]                                       |
| 12   | ME → UICC | TERMINAL RESPONSE:<br>REFRESH 1.1.1A<br>Or<br>TERMINAL RESPONSE:<br>REFRESH 1.1.1B | [normal ending]<br><br>[additional EFs read]   |
| 13   | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 14   | USER → ME | Call setup to "321"  |  |
| 15   | ME → USER | Call set up not allowed  |  |
| 16   | USER → ME | Call setup to "123"  |  |
| 17   | ME → USS  | Setup  | Called party BCD number shall be "123"   |

### SMS-PP (Data Download) Message 1.6.1

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 1.6.1

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 |    |

**Expected Sequence 1.7 (REFRESH, USIM Application Reset)**

| Step | Direction | MESSAGE / Action                                    | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 1.7.1         | [To inform the ME that FDN becomes enabled]                     |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 1.7.1                 | No UICC reset shall be performed between steps 3 and 9.         |
| 4    | ME → UICC | STATUS[P1='02']                                     | ME indicates to USIM that the termination procedure is starting |
| 5    | ME → UICC | Select AID=USIM<br>(P2='44') OR (P2='4C')           | Application termination   |
| 6    | UICC      | EF EST contents states FDN enabled                  | [New EF EST value: 01]  |
| 7    | ME → UICC | USIM Initialization, including send STATUS[P1='01'] | [ME performs USIM initialization]                               |
| 8    | ME → UICC | TERMINAL RESPONSE:<br>REFRESH 1.7.1                 | [normal ending]   |
| 9    | UICC → ME | PROACTIVE UICC SESSION ENDED                        |   |
| 10   | USER → ME | Call setup to "321"                                 |   |
| 11   | ME → USER | Call set up not allowed                             |   |
| 12   | USER → ME | Call setup to "123"                                 |   |
| 13   | ME → USS  | Setup   | Called party BCD number shall be "123"                          |
| 14   | USS → ME  | The ME receives the CONNECT message from the USS.   |   |
| 15   | USER → ME | The user ends the call after a few seconds.         |   |

**PROACTIVE COMMAND: REFRESH 1.7.1**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Application Reset

## Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |  |
|----------|----|----|----|----|----|----|----|----|----|----|----|--|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 01 | 05 | 82 | 02 | 81 | 82 |  |
|----------|----|----|----|----|----|----|----|----|----|----|----|--|

**TERMINAL RESPONSE: REFRESH 1.7.1**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Application Reset

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

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

#### 27.22.4.7.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.7.

#### 27.22.4.7.2 REFRESH (IMSI changing procedure)

##### 27.22.4.7.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.7.2.2 Conformance requirement

The ME shall support the REFRESH command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.7, clause 6.4.7.1, clause 6, clause 6.6.13, clause 5.2, clause 8.6, clause 8.7 and clause 8.18.

Additionally the ME shall support the USIM Initialization and USIM application closure procedure as defined in:

- TS 31.102 [14] clause 5.1.2 and Annex I.

##### 27.22.4.7.2.3 Test purpose

To verify that the ME performs the Proactive Command – REFRESH in accordance with the Command Qualifier and the IMSI changing procedure. This may require the ME to perform:

- the USIM initialization
- a re-read of the contents and structure of the IMSI on the USIM
- a restart of the card session
- a successful return of the result of the execution of the command in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.7.2.4 Method of test

###### 27.22.4.7.2.4.1 Initial conditions

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

The elementary files are coded as USIM Application Toolkit default.

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

The ATT flag broadcast in the SYSTEM INFORMATION BLOCK TYPE 1 on the BCCH is set to "UEs shall apply IMSI attach and detach procedure" for Expected Sequences 2.2.

###### 27.22.4.7.2.4.2 Procedure

#### **Expected Sequence 2.1 (REFRESH, UICC Reset for IMSI Changing procedure)**

TBD

**Expected Sequence 2.2 (REFRESH, USIM Application Reset for IMSI Changing procedure )**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 2.2.1             | [To inform the ME that IMSI has changed]   |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 2.2.1                     |  |
| 4    | ME → UICC | STATUS[P1='02']   | ME indicates to USIM that the termination procedure is starting  |
| 5    | ME → UICC |   | Application termination  |
| 6    | ME → USS  | IMSI DETACH INDICATION<br>and/or DETACH REQUEST         | Indicates IMSI detach and/or GPRS detach, depending on if the ME is CS and/or PS registered according to its capabilities            |
| 7    | UICC      | Update EF IMSI and EF LOCI                              | [Update the content of EF IMSI to "001010123456786", Temporary Mobile Subscriber Identity (TMSI) in EF LOCI be set to "FF FF FF FF"] |
| 8    | ME → UICC | SELECT AID=USIM<br>(P2='0x')                            | Application selection  |
| 9    | ME → UICC | USIM Initialization, including send<br>STATUS[P1='01']  | [ME performs USIM initialization]  |
| 10   | ME → UICC | TERMINAL RESPONSE:<br>REFRESH 2.2.1                     | [normal ending]  |
| 11   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED                         |  |
| 12   | ME → USS  | LOCATION UPDATING<br>REQUEST and/or ATTACH<br>REQUEST   | The ME will again register in CS and/or PS depending on its capabilities   |
| 13   | USS → ME  | LOCATION UPDATING ACCEPT<br>and/or ATTACH ACCEPT        |  |
| 14   | ME → USS  | TMSI REALLOCATION<br>COMPLETE and/or ATTACH<br>COMPLETE |  |

**PROACTIVE COMMAND: REFRESH 2.2.1**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Application Reset

## Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 01 | 05 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

**TERMINAL RESPONSE: REFRESH 2.2.1**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Application Reset

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully



Coding:

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

**Expected Sequence 2.3 (REFRESH, 3G Session Reset for IMSI Changing procedure)**

TBD

**Expected Sequence 2.4 (REFRESH, reject 3G Session Reset for IMSI Changing procedure during call)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | USER → ME | MO Call setup  |  |
| 2    | ME → USS  | Call established and maintained  |  |
| 3    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 2.4.1  |  |
| 4    | ME → UICC | FETCH  |  |
| 5    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 2.4.1  |  |
| 6    | ME → UICC | TERMINAL RESPONSE:<br>REFRESH 2.4.1A<br>Or<br>TERMINAL RESPONSE:<br>REFRESH 2.4.1B | ME rejects REFRESH proactive command   |
| 7    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  | Note: EF IMSI and EF LOCI are not updated<br>by the UICC, see TS 31.111[15], cl. 6.4.7.1 |
| 8    | USER → ME | The MO call is terminated  |  |

**PROACTIVE COMMAND: REFRESH 2.4.1**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: 3G Session Reset

## Device identities

Source device: UICC  
 Destination device: ME

## File list

Number of files: 2  
 File: EF IMSI  
 File: EF LOCI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 18 | 81 | 03 | 01 | 01 | 06 | 82 | 02 | 81 | 82 | 92 |
|          | 0D | 02 | 3F | 00 | 7F | FF | 6F | 07 | 3F | 00 | 7F | FF |
|          | 6F | 7E |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE: REFRESH 2.4.1A**

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: 3G Session Reset

## Device identities

Source device: ME

Destination device: UICC

Result

General Result: ME currently unable to process command

Additional information on result: ME currently busy on call

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 01 | 06 | 82 | 02 | 82 | 81 | 83 | 02 | 20 |
|          | 02 |    |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: REFRESH 2.4.1B

Logically:

Command details

Command number: 1

Command type: REFRESH

Command qualifier: 3G Session Reset

Device identities

Source device: ME

Destination device: UICC

Result

General Result: ME currently unable to process command

Additional information on result: Screen is busy

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 01 | 06 | 82 | 02 | 82 | 81 | 83 | 02 | 20 |
|          | 01 |    |    |    |    |    |    |    |    |    |    |    |

27.22.4.7.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.3.

27.22.4.7.3 REFRESH (Steering of roaming)

27.22.4.7.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.7.3.2 Conformance requirement

The ME shall support the REFRESH command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.7, clause 6.6.13, clause 5.2, clause 8.2, 8.6, clause 8.7 and clause 8.90.

Consequently the Rel-7 or later ME shall support the steering of roaming procedure as defined in:

- TS 23.122 [29] clause 4.4.6.

27.22.4.7.3.3 Test purpose

To verify that the ME performs the Proactive Command – REFRESH in accordance with the Command Qualifier. This shall require the ME to perform:

- the steering of roaming procedure,

- a successful return of the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.7.3.4 Method of test

##### 27.22.4.7.3.4.1 Initial conditions

For sequences 3.1 and 3.2 the ME is connected to the USIM Simulator and connected to the USS/SS.

For sequence 3.3 the ME supporting E-UTRAN is connected to the USIM Simulator and connected to the E-USS.

For sequences 3.1 and 3.2:

The elementary files are coded as Toolkit default with the following exception:

##### EF<sub>FPLMN</sub>

Logically:

|        |                   |
|--------|-------------------|
| PLMN1: | 254 002 (MCC MNC) |
| PLMN2: | 254 003           |
| PLMN3: | 254 004           |
| PLMN4: | 234 004           |
| PLMN5: | 234 005           |
| PLMN6: | 234 006           |

|         |     |     |     |     |     |     |    |    |    |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|
| Coding: | B1  | B2  | B3  | B4  | B5  | B6  | B7 | B8 | B9 | B10 | B11 | B12 |
| Hex     | 52  | 24  | 00  | 52  | 34  | 00  | 52 | 44 | 00 | 32  | 44  | 00  |
|         | B13 | B14 | B15 | B16 | B17 | B18 |    |    |    |     |     |     |
|         | 32  | 54  | 00  | 32  | 64  | 00  |    |    |    |     |     |     |

##### EF<sub>OPLMNwACT</sub>

Logically:

|                       |                   |
|-----------------------|-------------------|
| 1 <sup>st</sup> PLMN: | 254 001 (MCC MNC) |
| 1 <sup>st</sup> ACT:  | UTRAN             |
| 2 <sup>nd</sup> PLMN: | 254 001           |
| 2 <sup>nd</sup> ACT:  | GSM               |
| 3 <sup>rd</sup> PLMN: | 274 002           |
| 3 <sup>rd</sup> ACT:  | UTRAN             |
| 4 <sup>th</sup> PLMN: | 274 003           |
| 4 <sup>th</sup> ACT:  | UTRAN             |
| 5 <sup>th</sup> PLMN: | 274 004           |
| 5 <sup>th</sup> ACT:  | UTRAN             |
| 6 <sup>th</sup> PLMN: | 274 005           |
| 6 <sup>th</sup> ACT:  | UTRAN             |
| 7 <sup>th</sup> PLMN: | 274 006           |
| 7 <sup>th</sup> ACT:  | UTRAN             |
| 8 <sup>th</sup> PLMN: | 274 007           |
| 8 <sup>th</sup> ACT:  | UTRAN             |

|         |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Coding: | B01 | B02 | B03 | B04 | B05 | B06 | B07 | B08 | B09 | B10 |
| Hex     | 52  | 14  | 00  | 80  | 00  | 52  | 14  | 00  | 00  | 80  |
|         | B11 | B12 | B13 | B14 | B15 | B16 | B17 | B18 | B19 | B20 |
|         | 72  | 24  | 00  | 80  | 00  | 72  | 34  | 00  | 80  | 00  |
|         | B21 | B22 | B23 | B24 | B25 | B26 | B27 | B28 | B29 | B30 |
|         | 72  | 44  | 00  | 80  | 00  | 72  | 54  | 00  | 80  | 00  |
|         | B31 | B32 | B33 | B34 | B35 | B36 | B37 | B38 | B39 | B40 |
|         | 72  | 64  | 00  | 80  | 00  | 72  | 74  | 00  | 80  | 00  |

For sequence 3.3:

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

EF<sub>FPLMN</sub>

Logically: PLMN1: 254 002 (MCC MNC)  
 PLMN2: 254 003  
 PLMN3: 254 004  
 PLMN4: 234 004  
 PLMN5: 234 005  
 PLMN6: 234 006

|         |     |     |     |     |     |     |    |    |    |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|
| Coding: | B1  | B2  | B3  | B4  | B5  | B6  | B7 | B8 | B9 | B10 | B11 | B12 |
| Hex     | 52  | 24  | 00  | 52  | 34  | 00  | 52 | 44 | 00 | 32  | 44  | 00  |
|         | B13 | B14 | B15 | B16 | B17 | B18 |    |    |    |     |     |     |
|         | 32  | 54  | 00  | 32  | 64  | 00  |    |    |    |     |     |     |

EF<sub>OPLMNwACT</sub>

Logically: 1<sup>st</sup> PLMN: 254 001 (MCC MNC)  
 1<sup>st</sup> ACT: E-UTRAN, UTRAN  
 2<sup>nd</sup> PLMN: 254 001  
 2<sup>nd</sup> ACT: GSM  
 3<sup>rd</sup> PLMN: 274 002  
 3<sup>rd</sup> ACT: E-UTRAN  
 4<sup>th</sup> PLMN: 274 003  
 4<sup>th</sup> ACT: E-UTRAN  
 5<sup>th</sup> PLMN: 274 004  
 5<sup>th</sup> ACT: E-UTRAN  
 6<sup>th</sup> PLMN: 274 005  
 6<sup>th</sup> ACT: E-UTRAN  
 7<sup>th</sup> PLMN: 274 006  
 7<sup>th</sup> ACT: E-UTRAN  
 8<sup>th</sup> PLMN: 274 007  
 8<sup>th</sup> ACT: UTRAN

|         |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Coding: | B01 | B02 | B03 | B04 | B05 | B06 | B07 | B08 | B09 | B10 |
| Hex     | 52  | 14  | 00  | C0  | 00  | 52  | 14  | 00  | 00  | 80  |
|         | B11 | B12 | B13 | B14 | B15 | B16 | B17 | B18 | B19 | B20 |
|         | 72  | 24  | 00  | 40  | 00  | 72  | 34  | 00  | 40  | 00  |
|         | B21 | B22 | B23 | B24 | B25 | B26 | B27 | B28 | B29 | B30 |
|         | 72  | 44  | 00  | 40  | 00  | 72  | 54  | 00  | 40  | 00  |
|         | B31 | B32 | B33 | B34 | B35 | B36 | B37 | B38 | B39 | B40 |
|         | 72  | 64  | 00  | 40  | 00  | 72  | 74  | 00  | 80  | 00  |

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

## 27.22.4.7.3.4.2 Procedure

**Expected Sequence 3.1 (REFRESH, Steering of roaming, UTRAN)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | USS       | The first UMTS USS transmits on BCCH, with the following network parameters:<br>- Attach/detach: disabled.<br>- LAI (MCC/MNC/LAC): 254/001/0001.<br>- Access control: unrestricted.<br>The second UMTS USS transmits on BCCH, with the following network parameters:<br>- Attach/detach: disabled.<br>- LAI (MCC/MNC/LAC): 254/002/0001.<br>- Access control: unrestricted. |  |
| 2    | ME → USS  | The ME registers to the first USS.  |  |
| 3    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 3.1.1  | [Setting up LOCATION STATUS Event]   |
| 4    | ME → UICC | FETCH   |  |
| 5    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 3.1.1  |  |
| 6    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 3.1.1  |  |
| 7    | UICC → ME | PROACTIVE COMMAND PENDING: REFRESH 3.1.1  |  |
| 8    | ME → UICC | FETCH   |  |
| 9    | UICC → ME | PROACTIVE COMMAND: REFRESH 3.1.1  | Note: Step 11 can occur at any time during execution of steps 10a to 10d                                     |
| 10a  | UICC      | Update of EF OPLMNwACT  | [First entry: PLMN= 254/003, ACT=UTRAN, second entry: PLMN 254/004, ACT=GERAN]                               |
| 10b  | ME → UICC | Update of EF FPLMN  | [Deletion of the entries with PLMN 254/003 and PLMN 254/004]   |
| 10c  | ME        | Update of ME's internal memory  | [Not explicitly verified: Deletion of the FPLMN entries with PLMN 254/003 and PLMN 254/004]                  |
| 10d  | ME → USS  | From steps 9 -13:<br>The ME does not register to another USS than the currently selected and shall not send new LOCATION STATUS event to the UICC.  |  |
| 11   | ME → UICC | TERMINAL RESPONSE: REFRESH 3.1.1  | [normal ending]<br>Note : For a pre-release 11 ME, the UICC simulator does not need to evaluate the response |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 13   |           | Wait approx. 180 seconds  | [The ME does not register to another USS than the currently selected.]                                       |
| 14   | UICC → ME | PROACTIVE COMMAND PENDING: REFRESH 3.1.2  |  |
| 15   | ME → UICC | FETCH   |  |
| 16   | UICC → ME | PROACTIVE COMMAND: REFRESH 3.1.2  | Note: Step 18 can occur at any time during execution of steps 17a to 17c                                     |
| 17a  | UICC      | Update of EF OPLMNwACT  | [First entry: PLMN= 254/002, ACT=UTRAN,GERAN, second entry: PLMN 254/001, ACT=UTRAN,GERAN]                   |
| 17b  | ME → UICC | Update of EF FPLMN  | [Deletion of the entry with PLMN 254/002]  |
| 17c  | ME        | Update of ME's internal memory  | [Not explicitly verified: Deletion of the FPLMN entry with PLMN 254/002]                                     |
| 18   | ME → UICC | TERMINAL RESPONSE: REFRESH 3.1.2  | [normal ending]  |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |

|     |           |  |  |
|-----|-----------|--|--|
| 20  | ME → USS  | The ME registers to the second USS.                | Note: The ME might have registered to the second USS also before steps 18/19.  |
| 21  | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Location Status 3.1.1   | PLMN MCC/MNC: 254/002, Normal service<br><br>Note: The ME send the Envelope after registration to the second USS, thus might have sent the Envelope also before steps 18/19. |
| 22  | UICC → ME | PROACTIVE COMMAND PENDING: REFRESH 3.1.3           |  |
| 23  | ME → UICC | FETCH  |  |
| 24  | UICC → ME | PROACTIVE COMMAND: REFRESH 3.1.3                   | Note: Step 26 can occur at any time during execution of steps 25a to 25c   |
| 25a | UICC      | Update of EF OPLMNwACT                             | [First entry: PLMN= 254/003, ACT=UTRAN,GERAN, second entry: PLMN 254/001, ACT=UTRAN,GERAN]   |
| 25b | UICC      | EF FPLMN   | [PLMN entries 254/003 and PLMN 254/001 not existent in EF FPLMN]   |
| 25c | ME        | ME's internal memory                               | [Not explicitly verified: PLMN entries 254/003 and PLMN 254/001 not existent in FPLMN list]  |
| 26  | ME → UICC | TERMINAL RESPONSE: REFRESH 3.1.2                   | [normal ending]  |
| 27  | UICC → ME | PROACTIVE UICC SESSION ENDED                       |  |
| 28  | ME → USS  | The ME registers to the first USS.                 | Note: The ME might have registered to the first USS also before steps 26/27.   |
| 29  | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Location Status 3.1.2   | PLMN MCC/MNC: 254/001<br>Note: The ME send the Envelope after registration to the first USS, thus might have sent the Envelope also before steps 26/27.                      |
| 30  | UICC → ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 3.2.1 |  |
| 31  | ME → UICC | FETCH  |  |
| 32  | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 3.2.1         | [Event LOCATION STATUS download removed]   |
| 33  | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 3.2.1         | The content of the Terminal Response is not part of the evaluation of the test case  |
| 34  | USER → ME | SWITCH OFF ME                                      |  |

#### PROACTIVE COMMAND: SET UP EVENT LIST 3.1.1

Same as PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 in clause 27.22.7.4.1.4.2.

#### TERMINAL RESPONSE: SET UP EVENT LIST 3.1.1

Same as TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1 in clause 27.22.7.4.1.4.2.

#### PROACTIVE COMMAND: SET UP EVENT LIST 3.2.1

Same as PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2 in clause 27.22.4.16.1.4.2.

#### TERMINAL RESPONSE: SET UP EVENT LIST 3.2.1

Same as TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2 in clause 27.22.4.16.1.4.2.

#### PROACTIVE COMMAND: REFRESH 3.1.1

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: UICC  
 Destination device: ME

## PLMNwACT List

1stPLMN: 254/003  
 1stACT: UTRAN  
 2ndPLMN: 254/004  
 2ndACT: GERAN

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 81 | 82 | 72 |
|          | 0A | 52 | 34 | 00 | 80 | 00 | 52 | 44 | 00 | 00 | 80 |    |

## TERMINAL RESPONSE: REFRESH 3.1.1

## Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## PROACTIVE COMMAND: REFRESH 3.1.2

## Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: UICC  
 Destination device: ME

## PLMNwACT List

1stPLMN: 254/002  
 1stACT: UTRAN/GERAN  
 2ndPLMN: 254/001  
 2ndACT: UTRAN/GERAN

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 81 | 82 | 72 |
|          | 0A | 52 | 24 | 00 | 80 | 80 | 52 | 14 | 00 | 80 | 80 |    |

## TERMINAL RESPONSE: REFRESH 3.1.2

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## EVENT DOWNLOAD - LOCATION STATUS 3.1.1

Logically:

Event list: Location status

## Device identities

Source device: ME  
 Destination device: UICC

Location status: normal service

## Location Information

MCC & MNC the mobile country and network code (254/002)  
 LAC the location Area Code (0001)

Cell ID Cell Identity Value (0001)

Extended Cell ID RNC-id value, see also Note 1

Coding:

|          |    |    |    |    |    |    |    |    |    |           |    |    |
|----------|----|----|----|----|----|----|----|----|----|-----------|----|----|
| BER-TLV: | D6 | 15 | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B        | 01 | 00 |
|          | 13 | 09 | 52 | 24 | 00 | 00 | 01 | 00 | 01 | Note<br>1 |    |    |

Note 1: The Extended Cell Identity Value is present. The values of the two bytes shall not be verified.

## PROACTIVE COMMAND: REFRESH 3.1.3

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: UICC



Destination device: ME  
 PLMNwACT List  
 1stPLMN: 254/003  
 1stACT: UTRAN/GERAN  
 2ndPLMN: 254/001  
 2ndACT: UTRAN/GERAN

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 81 | 82 | 72 |
|          | 0A | 52 | 34 | 00 | 80 | 80 | 52 | 14 | 00 | 80 | 80 |    |

### EVENT DOWNLOAD - LOCATION STATUS 3.1.2

Logically:

Event list: Location status  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Location status: normal service  
 Location Information  
 MCC & MNC the mobile country and network code (254/001)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Extended Cell ID RNC-id value, see also Note 1

Coding:

|          |    |    |    |    |    |    |    |    |    |           |    |    |
|----------|----|----|----|----|----|----|----|----|----|-----------|----|----|
| BER-TLV: | D6 | 15 | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B        | 01 | 00 |
|          | 13 | 09 | 52 | 14 | 00 | 00 | 01 | 00 | 01 | Note<br>1 |    |    |

Note 1: The Extended Cell Identity Value is present. The values of the two bytes shall not be verified.

**Expected Sequence 3.2 (REFRESH, Steering of roaming, InterRAT)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | USS       | The UMTS USS transmits on BCCH, with the following network parameters:<br>- Attach/detach: disabled.<br>- LAI (MCC/MNC/LAC): 254/001/0001.<br>- Access control: unrestricted.<br>The GSM SS transmits on BCCH, with the following network parameters:<br>- Attach/detach: disabled.<br>- LAI (MCC/MNC/LAC): 254/002/0001.<br>- Cell ID: 0001<br>- Access control: unrestricted. |  |
| 2    | ME → USS  | The ME registers to the UMTS USS and achieves updated idle mode.  |  |
| 3    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 3.1.1  | [Setting up LOCATION STATUS Event]   |
| 4    | ME → UICC | FETCH   |  |
| 5    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 3.1.1  |  |
| 6    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 3.1.1  |  |
| 7    | UICC → ME | PROACTIVE COMMAND PENDING: REFRESH 3.2.1  |  |
| 8    | ME → UICC | FETCH   |  |
| 9    | UICC → ME | PROACTIVE COMMAND: REFRESH 3.2.1  | Note: Step 11 can occur at any time during execution of steps 10a to 10c   |
| 10a  | UICC      | Update of EF OPLMNwACT  | [First entry: PLMN= 254/002, ACT= GERAN, second entry: PLMN 254/001, ACT=UTRAN]  |
| 10b  | ME → UICC | Update of EF FPLMN  | [Deletion of the entry with PLMN 254/002]  |
| 10c  | ME        | Update of ME's internal memory  | [Not explicitly verified: Deletion of the FPLMN entry with PLMN 254/002]   |
| 11   | ME → UICC | TERMINAL RESPONSE: REFRESH 3.1.2  | [normal ending]  |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 13   | ME → USS  | The ME registers to the GSM SS and is in updated idle mode.   | Note: The ME might have registered to the second USS also before steps 11/12.  |
| 14   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Location Status 3.2.1  | PLMN MCC/MNC: 254/002, Normal service<br><br>Note: The ME send the Envelope after registration to the GSM SS, thus might have sent the Envelope also before steps 11/12. |
| 15   | UICC → ME | PROACTIVE COMMAND PENDING: REFRESH 3.2.2  |  |
| 16   | ME → UICC | FETCH   |  |
| 17   | UICC → ME | PROACTIVE COMMAND: REFRESH 3.2.2  | Note: Step 19 can occur at any time during execution of steps 18a to 18c   |
| 18a  | UICC      | Update of EF OPLMNwACT  | [First entry: PLMN= 254/001, ACT= UTRAN, second entry: PLMN 254/002, ACT=GERAN]  |
| 18b  | UICC      | EF FPLMN  | [Entries with PLMN 254/002 and PLMN 254/001 not existent in EF FPLMN]  |
| 18c  | ME        | ME's internal memory  | [Not explicitly verified: FPLMN entries with PLMN 254/002 and PLMN 254/001 not existent in FPLMN list]   |
| 19   | ME → UICC | TERMINAL RESPONSE: REFRESH 3.1.2  | [normal ending]  |
| 20   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |

|    |           |   |   |
|----|-----------|---|---|
| 21 | ME → USS  | The ME registers to the UMTS USS and is in updated idle mode. | Note: The ME might have registered to the first USS also before steps 19/20.  |
| 22 | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Location Status 3.2.2              | PLMN MCC/MNC: 254/001<br>Note: The ME send the Envelope after registration to the first USS, thus might have sent the Envelope also before steps 19/20. |
| 23 | UICC → ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 3.2.1            |   |
| 24 | ME → UICC | FETCH   |   |
| 25 | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 3.2.1                    | [Event LOCATION STATUS download removed]  |
| 26 | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 3.2.1                    | The content of the Terminal Response is not part of the evaluation of the test case   |
| 27 | USER → ME | SWITCH OFF ME   |   |

## PROACTIVE COMMAND: REFRESH 3.2.1

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: UICC  
 Destination device: ME

## PLMNwACT List

1stPLMN: 254/002  
 1stACT: GERAN  
 2ndPLMN: 254/001  
 2ndACT: UTRAN

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 81 | 82 | 72 |
|          | 0A | 52 | 24 | 00 | 00 | 80 | 52 | 14 | 00 | 80 | 00 |    |

## PROACTIVE COMMAND: REFRESH 3.2.2

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: UICC  
 Destination device: ME

## PLMNwACT List

1stPLMN: 254/003  
 1stACT: GERAN  
 2ndPLMN: 254/001  
 2ndACT: UTRAN

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 81 | 82 | 72 |
|          | 0A | 52 | 34 | 00 | 00 | 80 | 52 | 14 | 00 | 80 | 00 |    |

## EVENT DOWNLOAD - LOCATION STATUS 3.2.1

Logically:

|                      |   |
|----------------------|---|
| Event list:          | Location status                               |
| Device identities    |   |
| Source device:       | ME  |
| Destination device:  | UICC  |
| Location status:     | normal service                                |
| Location Information |   |
| MCC & MNC            | the mobile country and network code (254/002) |
| LAC                  | the location Area Code (0001)                 |
| Cell ID              | Cell Identity Value (0001)                    |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 13 | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B | 01 | 00 |
|          | 13 | 07 | 52 | 24 | 00 | 00 | 01 | 00 | 01 |    |    |    |

## EVENT DOWNLOAD - LOCATION STATUS 3.1.2

Logically:

|                      |   |
|----------------------|---|
| Event list:          | Location status                               |
| Device identities    |   |
| Source device:       | ME  |
| Destination device:  | UICC  |
| Location status:     | normal service                                |
| Location Information |   |
| MCC & MNC            | the mobile country and network code (254/001) |
| LAC                  | the location Area Code (0001)                 |
| Cell ID              | Cell Identity Value (0001)                    |
| Extended Cell ID:    | RNC-id value, see also Note 1                 |

Coding:

|          |    |    |    |    |    |    |    |    |    |           |    |    |
|----------|----|----|----|----|----|----|----|----|----|-----------|----|----|
| BER-TLV: | D6 | 15 | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B        | 01 | 00 |
|          | 13 | 09 | 52 | 14 | 00 | 00 | 01 | 00 | 01 | Note<br>1 |    |    |

Note 1: The Extended Cell Identity Value is present. The values of the two bytes shall not be verified.

**Expected Sequence 3.3 (REFRESH, Steering of roaming, E-UTRAN)**

| Step | Direction  | MESSAGE / Action  | Comments   |
|------|------------|---|--|
| 1    | E-USS      | The first E-USS transmits on BCCH, with the following network parameters:<br>- Attach/detach: disabled.<br>- TAI (MCC/MNC/TAC): 254/001/0001.<br>- Access control: unrestricted.<br>The second E-USS transmits on BCCH, with the following network parameters:<br>- Attach/detach: disabled.<br>- TAI (MCC/MNC/TAC): 254/002/0001.<br>- Access control: unrestricted. |  |
| 2    | ME → E-USS | The ME registers to the first E-USS.  |  |
| 3    | UICC → ME  | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 3.1.1  | [Setting up LOCATION STATUS Event]   |
| 4    | ME → UICC  | FETCH   |  |
| 5    | UICC → ME  | PROACTIVE COMMAND: SET UP EVENT LIST 3.1.1  |  |
| 6    | ME → UICC  | TERMINAL RESPONSE: SET UP EVENT LIST 3.1.1  |  |
| 7    | UICC → ME  | PROACTIVE COMMAND PENDING: REFRESH 3.3.1  |  |
| 8    | ME → UICC  | FETCH   |  |
| 9    | UICC → ME  | PROACTIVE COMMAND: REFRESH 3.3.1  | Note: Step 11 can occur at any time during execution of steps 10a to 10d                                     |
| 10a  | UICC       | Update of EF OPLMNwACT  | [First entry: PLMN= 254/003, ACT=E-UTRAN,UTRAN, second entry: PLMN 254/004, ACT=GERAN]                       |
| 10b  | ME → UICC  | Update of EF FPLMN  | [Deletion of the entries with PLMN 254/003 and PLMN 254/004]   |
| 10c  | ME         | Update of ME's internal memory  | [Not explicitly verified: Deletion of the FPLMN entries with PLMN 254/003 and PLMN 254/004]                  |
| 10d  | ME → E-USS | From steps 9 -13:<br>The ME does not register to another E-USS than the currently selected and shall not send new LOCATION STATUS event to the UICC.  |  |
| 11   | ME → UICC  | TERMINAL RESPONSE: REFRESH 3.3.1  | [normal ending]<br>Note : For a pre-release 11 ME, the UICC simulator does not need to evaluate the response |
| 12   | UICC → ME  | PROACTIVE UICC SESSION ENDED  |  |
| 13   |            | Wait approx. 180 seconds  | [The ME does not register to another E-USS than the currently selected.]                                     |
| 14   | UICC → ME  | PROACTIVE COMMAND PENDING: REFRESH 3.3.2  |  |
| 15   | ME → UICC  | FETCH   |  |
| 16   | UICC → ME  | PROACTIVE COMMAND: REFRESH 3.3.2  | Note: Step 18 can occur at any time during execution of steps 17a to 17c                                     |
| 17a  | UICC       | Update of EF OPLMNwACT  | [First entry: PLMN= 254/002, ACT=E-UTRAN,UTRAN,GERAN, second entry: PLMN 254/001, ACT=E-UTRAN,UTRAN,GERAN]   |
| 17b  | ME → UICC  | Update of EF FPLMN  | [Deletion of the entry with PLMN 254/002]  |
| 17c  | ME         | Update of ME's internal memory  | [Not explicitly verified: Deletion of the FPLMN entry with PLMN 254/002]                                     |
| 18   | ME → UICC  | TERMINAL RESPONSE: REFRESH 3.3.2  | [normal ending]  |
| 19   | UICC → ME  | PROACTIVE UICC SESSION ENDED  |  |

|     |            |  |  |
|-----|------------|--|--|
| 20  | ME → E-USS | The ME registers to the second E-USS.              | Note: The ME might have registered to the second USS also before steps 18/19.  |
| 21  | ME → UICC  | ENVELOPE: EVENT DOWNLOAD - Location Status 3.3.2   | PLMN MCC/MNC: 254/002<br>Note: The ME send the Envelope after registration to the second USS, thus might have sent the Envelope also before steps 18/19.     |
| 22  | UICC → ME  | PROACTIVE COMMAND PENDING: REFRESH 3.1.3           |  |
| 23  | ME → UICC  | FETCH  |  |
| 24  | UICC → ME  | PROACTIVE COMMAND: REFRESH 3.3.3                   | Note: Step 26 can occur at any time during execution of steps 25a to 25c   |
| 25a | UICC       | Update of EF OPLMNwACT                             | [First entry: PLMN= 254/003, ACT=E-UTRAN,UTRAN,GERAN, second entry: PLMN 254/001, ACT=E-UTRAN,UTRAN,GERAN]   |
| 25b | UICC       | EF FPLMN   | [PLMN entries 254/003 and PLMN 254/001 not existent in EF FPLMN]   |
| 25c | ME         | ME's internal memory                               | [Not explicitly verified: PLMN entries 254/003 and PLMN 254/001 not existent in FPLMN list]  |
| 26  | ME → UICC  | TERMINAL RESPONSE: REFRESH 3.3.2                   | [normal ending]  |
| 27  | UICC → ME  | PROACTIVE UICC SESSION ENDED                       |  |
| 28  | ME → E-USS | The ME registers to the first E-USS.               | Note: The ME might have registered to the first USS also before steps 26/27.   |
| 29  | ME → UICC  | ENVELOPE: EVENT DOWNLOAD - Location Status 3.3.3   | PLMN MCC/MNC: 254/001<br><br>Note: The ME send the Envelope after registration to the second USS, thus might have sent the Envelope also before steps 26/27. |
| 30  | UICC → ME  | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 3.2.1 |  |
| 31  | ME → UICC  | FETCH  |  |
| 32  | UICC → ME  | PROACTIVE COMMAND: SET UP EVENT LIST 3.2.1         | [Event LOCATION STATUS download removed]   |
| 33  | ME → UICC  | TERMINAL RESPONSE: SET UP EVENT LIST 3.2.1         | The content of the Terminal Response is not part of the evaluation of the test case  |
| 34  | USER → ME  | SWITCH OFF ME                                      |  |

## PROACTIVE COMMAND: REFRESH 3.3.1

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: UICC  
 Destination device: ME

## PLMNwACT List

1stPLMN: 254/003  
 1stACT: E-UTRAN, UTRAN  
 2ndPLMN: 254/004  
 2ndACT: GERAN

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 81 | 82 | 72 |
|          | 0A | 52 | 34 | 00 | C0 | 00 | 52 | 44 | 00 | 00 | 80 |    |

## TERMINAL RESPONSE: REFRESH 3.3.1

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## PROACTIVE COMMAND: REFRESH 3.3.2

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: UICC  
 Destination device: ME

## PLMNwACT List

1stPLMN: 254/002  
 1stACT: E-UTRAN/UTRAN/GERAN  
 2ndPLMN: 254/001  
 2ndACT: E-UTRAN/UTRAN/GERAN

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 81 | 82 | 72 |
|          | 0A | 52 | 24 | 00 | C0 | 80 | 52 | 14 | 00 | C0 | 80 |    |

## TERMINAL RESPONSE: REFRESH 3.3.2

Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming

## Device identities

Source device: ME

Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

### EVENT DOWNLOAD - LOCATION STATUS 3.3.2

Logically:

Event list: Location status  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Location status: normal service  
 Location Information  
 MCC & MNC: the mobile country and network code (254/002)  
 TAC: 0001  
 E-UTRAN cell id: 0001 (28bits)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 15 | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B | 01 | 00 |
|          | 13 | 09 | 52 | 24 | 00 | 00 | 01 | 00 | 00 | 00 | 1F |    |

### PROACTIVE COMMAND: REFRESH 3.3.3

Logically:

Command details  
 Command number: 1  
 Command type: REFRESH  
 Command qualifier: Steering of roaming  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 PLMNwACT List  
 1stPLMN: 254/003  
 1stACT: E-UTRAN/UTRAN/GERAN  
 2ndPLMN: 254/001  
 2ndACT: E-UTRAN/UTRAN/GERAN

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 15 | 81 | 03 | 01 | 01 | 07 | 82 | 02 | 81 | 82 | 72 |
|          | 0A | 52 | 34 | 00 | C0 | 80 | 52 | 14 | 00 | C0 | 80 |    |

### EVENT DOWNLOAD - LOCATION STATUS 3.3.3

Logically:

Event list: Location status  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Location status: normal service  
 Location Information



MCC & MNC            the mobile country and network code (254/001)  
TAC                      0001  
E-UTRAN cell id:      0001 (28bits)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 15 | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B | 01 | 00 |
|          | 13 | 09 | 52 | 14 | 00 | 00 | 01 | 00 | 00 | 00 | 1F |    |

#### 27.22.4.7.3.5 Test requirement

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

#### 27.22.4.7.4 REFRESH (AID)

##### 27.22.4.7.4.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.7.4.2 Conformance requirement

The ME shall support the REFRESH command as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.7, clause 6, clause 6.6.13, clause 5.2, clause 8.6, clause 8.7, clause 8.18 and clause 8.60.

The ME shall support the IMS related requirements as defined and tested in:

- TS 24.229 [38] clause 5.1.1.7 and Annex C.4
- TS 34.229-1 [36] clause 8.15, Annex C.2, C.17 and C.18

The ME shall support the USIM Initialization procedure as defined in:

- TS 31.102 [14] clause 5.1.2 and Annex I.

##### 27.22.4.7.4.3 Test purpose

To verify that the ME performs the Proactive Command – REFRESH in accordance with the Command Qualifier and additionally correctly takes into account the Application Identifier if present in the Refresh command.

- Verification of correct Refresh command execution within the application executed on a any logical channel if the corresponding AID is present in the Refresh command

This may require the ME to perform:

- a USIM or ISIM initialization
- a re-read of the contents and structure of the ISIM on the USIM
- a successful return of the result of the execution of the command in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.7.4.4 Method of test

###### 27.22.4.7.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as defined for the E-UTRAN/EPC ISIM-UICC in clause 27.22.2C.

For sequence 4.1 the ME is connected to the E-USS or the USS.

#### 27.22.4.7.4.4.2 Procedure

#### Expected Sequence 4.1 (REFRESH with AID)

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | USER → ME | The ME is switched on  | ME will perform Profile Download, USIM and ISIM initialisation   |
| 2    | ME → NWS  | ME activates the required bearer, discovers P-CSCF and registers with the values from the ISIM to IMS services   | For E-UTRAN:<br>The EPS bearer context activation according to the procedures defined in TS 34.229-1 [36], Annex C.2 and C.18 is performed<br><br>For UTRAN:<br>A PDP context activation according to the procedures defined in TS 34.229-1 [36], Annex C.2 and C.17 is performed.   |
| 3    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 4.1.1  | To inform the ME that EF_FPLMN shall be re-read.   |
| 4    | ME → UICC | FETCH  |  |
| 5    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 4.1.1  | EF_FPLMN shall be read by the UE, but this might occur even after the Terminal Response.<br>An update of EF_FPLMN by the UICC is not required in this test.  |
| 6    | ME → UICC | TERMINAL RESPONSE:<br>REFRESH 4.1.1A<br>Or<br>TERMINAL RESPONSE:<br>REFRESH 4.1.1B   | [normal ending]<br><br>[additional EFs read]   |
| 7    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |
| 8    |           | Continue with steps 1 – 4 of the "Expected Sequence" of test 8.15 of TS 34.229-1 with the following parameters: <ul style="list-style-type: none"> <li>REFRESH command: PROACTIVE COMMAND: Refresh 4.2.1</li> <li>Initial Home Domain name = Updated Home Domain name</li> <li>New IMPI in EF_IMPI= <a href="mailto:00101555666@test.3gpp.com">00101555666@test.3gpp.com</a></li> <li>New IMPU in record 1 of EF_IMPU= 00101555666@ims.mnc246.mc c081.3gppnetwork.org</li> </ul> | The following requirements shall be verified: <ol style="list-style-type: none"> <li>After step 1 and before step 4 of the "Expected Sequence" of test 8.15 of TS 34.229-1 the ME shall have sent TERMINAL RESPONSE: REFRESH 4.2.1A or TERMINAL RESPONSE: REFRESH 4.2.1B</li> <li>The ME shall have fulfilled the test requirements defined in TS 34.229, clause 8.15.5</li> </ol> |

#### PROACTIVE COMMAND: REFRESH 4.1.1

Logically:

##### Command details

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

##### Device identities

Source device: UICC  
Destination device: ME

## File List

File 1: EF FPLMN  
 Application Identifier  
 Content: The 3GPP USIM AID used in the test system configuration

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 01 | 01 | 82 | 02 | 81 | 82 |
|          | 92 | 07 | 01 | 3F | 00 | 7F | FF | 6F | 7B | 2F | 10 |
|          | A0 | 00 | 00 | 00 | 87 | 10 | 02 | xx | xx | xx | xx |
|          | xx | xx | xx | xx | xx |    |    |    |    |    |    |

## PROACTIVE COMMAND: REFRESH 4.2.1

## Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: ISIM Initialization

## Device identities

Source device: UICC  
 Destination device: ME

## Application Identifier

Content: The 3GPP ISIM AID used in the test system configuration

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1B | 81 | 03 | 01 | 01 | 03 | 82 | 02 | 81 | 82 |
|          | 2F | 10 | A0 | 00 | 00 | 00 | 87 | 10 | 04 | xx | xx |
|          | xx | xx | xx | xx | xx | xx | xx |    |    |    |    |

## TERMINAL RESPONSE: REFRESH 4.1.1A/4.2.1A

## Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM/ISIM Initialization

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

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

## TERMINAL RESPONSE: REFRESH 4.1.1B/ 4.2.1B

## Logically:

## Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM/ISIM Initialization  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: REFRESH performed with additional EFs read

Coding:

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

#### 27.22.4.7.4.5 Test requirement

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

### 27.22.4.8 SET UP MENU and ENVELOPE MENU SELECTION

#### 27.22.4.8.1 SET UP MENU (normal) and ENVELOPE MENU SELECTION

##### 27.22.4.8.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.8.1.2 Conformance requirement

The ME shall support the SET UP MENU command as defined in:

- TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4.

The ME shall support MENU SELECTION as defined in:

- TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.

##### 27.22.4.8.1.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user has indicated the need to get help information on one of the items, the ME informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

##### 27.22.4.8.1.4 Method of test

###### 27.22.4.8.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

#### 27.22.4.8.1.4.2 Procedure

##### **Expected Sequence 1.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.1.4.2, Expected Sequence 1.1.

##### **Expected Sequence 1.2 (SET UP MENU, Large Menu with many items or with large items or with Large Alpha Identifier)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.1.4.2, Expected Sequence 1.2.

The following table details the test requirements with relation to the tested features:

| Proactive UICC Command Number | Proactive UICC Command Facilities |                 |                        |
|-------------------------------|-----------------------------------|-----------------|------------------------|
|                               | Alpha Identifier Length           | Number of items | Maximum length of item |
| 1.1.1                         | 12                                | 4               | 6                      |
| 1.1.2                         | 12                                | 2               | 3                      |
| 1.1.3                         | 10                                | 0               | -                      |
| 1.2.1                         | 10                                | 30              | 8                      |
| 1.2.2                         | 10                                | 7               | 37                     |
| 1.2.3                         | 235                               | 1               | 1                      |

#### 27.22.4.8.1.5 Test requirement

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

#### 27.22.4.8.2 SET UP MENU (help request support) and ENVELOPE MENU SELECTION

##### 27.22.4.8.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.8.2.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 31.111 [15] clause 8.21.

##### 27.22.4.8.2.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that when the help is available for the command and the user has indicated the need to get help information on one of the items, the ME informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

##### 27.22.4.8.2.4 Method of test

###### 27.22.4.8.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

#### 27.22.4.8.2.4.2 Procedure

##### **Expected Sequence 2.1 (SET UP MENU and MENU SELECTION, with Help Request, Replace and Remove a Toolkit Menu)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.2.4.2, Expected Sequence 2.1.

#### 27.22.4.8.2.5 Test requirement

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

### 27.22.4.8.3 SET UP MENU (next action support) and ENVELOPE MENU SELECTION

#### 27.22.4.8.3.1 Definition and applicability

See clause 3.2.2.

If the UICC provides an Items Next Action Indicator data object, the comprehension required flag shall be set to '0'.

#### 27.22.4.8.3.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- TS 31.111 [15] clause 8.24.

#### 27.22.4.8.3.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the next action indicator is supported.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

#### 27.22.4.8.3.4 Method of test

##### 27.22.4.8.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

##### 27.22.4.8.3.4.2 Procedure

##### **Expected Sequence 3.1 (SET UP MENU, next action indicator "Send SM", "Set Up Call", "Launch Browser", "Provide Local Information", successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.3.4.2, Expected Sequence 3.1.

#### 27.22.4.8.3.5 Test requirement

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

### 27.22.4.8.4 SET UP MENU (display of icons) and ENVELOPE MENU SELECTION

#### 27.22.4.8.4.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.8.4.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clause 6.5.4, 8.31 and 8.32.

#### 27.22.4.8.4.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that icons are displayed with the command Set Up Menu in the Alpha Identifier and Items Data Objects. To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

#### 27.22.4.8.4.4 Method of test

##### 27.22.4.8.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

##### 27.22.4.8.4.4.2 Procedure

#### **Expected Sequence 4.1A (SET UP MENU, BASIC ICON NOT SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.4.4.2, Expected Sequence 4.1A.

#### **Expected Sequence 4.1B (SET UP MENU, BASIC ICON NOT SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.4.4.2, Expected Sequence 4.1B.

#### **Expected Sequence 4.2A (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.4.4.2, Expected Sequence 4.2A.

#### **Expected Sequence 4.2B (SET UP MENU, BASIC ICON SELF EXPLANATORY in ALPHA ID and ITEMS DATA OBJECTS, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.4.4.2, Expected Sequence 4.2B.

#### 27.22.4.8.4.5 Test requirement

The ME shall operate in the manner defined in expected sequences 4.1A to 4.2B.

#### 27.22.4.8.5 SET UP MENU (soft keys support) and ENVELOPE MENU SELECTION

##### 27.22.4.8.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.8.5.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1.

##### 27.22.4.8.5.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that if soft key preferred is indicated in the command details and soft key for SET UP MENU is supported by the ME and the number of icon items does not exceed the number of soft keys available, then the ME displays those icons as soft key.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

##### 27.22.4.8.5.4 Method of test

###### 27.22.4.8.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

###### 27.22.4.8.5.4.2 Procedure

#### **Expected Sequence 5.1 (SET UP MENU, SOFT KEY PREFERRED, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.5.4.2, Expected Sequence 5.1.

##### 27.22.4.8.5.5 Test requirement

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

#### 27.22.4.8.6 SET UP MENU (support of Text Attribute) and ENVELOPE MENU SELECTION

##### 27.22.4.8.6.1 SET UP MENU (support of Text Attribute – Left Alignment) and ENVELOPE MENU SELECTION

###### 27.22.4.8.6.1.1 Definition and applicability

See clause 3.2.2.

###### 27.22.4.8.6.1.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.



#### 27.22.4.8.6.1.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the left alignment text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

#### 27.22.4.8.6.1.4 Method of test

##### 27.22.4.8.6.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

##### 27.22.4.8.6.1.4.2 Procedure

#### **Expected Sequence 6.1 (SET UP MENU, Text Attribute – Left Alignment, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.1.4.2, Expected Sequence 6.1.

##### 27.22.4.8.6.1.5 Test requirement

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

#### 27.22.4.8.6.2 SET UP MENU (support of Text Attribute – Center Alignment) and ENVELOPE MENU SELECTION

##### 27.22.4.8.6.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.8.6.2.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.8.6.2.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the center alignment text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

##### 27.22.4.8.6.2.4 Method of test

##### 27.22.4.8.6.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

#### 27.22.4.8.6.2.4.2 Procedure

##### **Expected Sequence 6.2 (SET UP MENU, Text Attribute – Center Alignment, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.2.4.2, Expected Sequence 6.2.

#### 27.22.4.8.6.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.2.

#### 27.22.4.8.6.3 SET UP MENU (support of Text Attribute – Right Alignment) and ENVELOPE MENU SELECTION

##### 27.22.4.8.6.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.8.6.3.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.8.6.3.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the right alignment text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

##### 27.22.4.8.6.3.4 Method of test

###### 27.22.4.8.6.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

###### 27.22.4.8.6.3.4.2 Procedure

##### **Expected Sequence 6.3 (SET UP MENU, Text Attribute – Right Alignment, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.3.4.2, Expected Sequence 6.3.

#### 27.22.4.8.6.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.3.

#### 27.22.4.8.6.4 SET UP MENU (support of Text Attribute – Large Font Size) and ENVELOPE MENU SELECTION

##### 27.22.4.8.6.4.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.8.6.4.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.8.6.4.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the large font size text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

##### 27.22.4.8.6.4.4 Method of test

###### 27.22.4.8.6.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

###### 27.22.4.8.6.4.4.2 Procedure

#### **Expected Sequence 6.4 (SET UP MENU, Text Attribute – Large Font Size, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.4.4.2, Expected Sequence 6.4.

###### 27.22.4.8.6.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.4.

#### 27.22.4.8.6.5 SET UP MENU (support of Text Attribute – Small Font Size) and ENVELOPE MENU SELECTION

##### 27.22.4.8.6.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.8.6.5.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.8.6.5.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the with small font size text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

#### 27.22.4.8.6.5.4 Method of test

##### 27.22.4.8.6.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

##### 27.22.4.8.6.5.4.2 Procedure

#### **Expected Sequence 6.5 (SET UP MENU, Text Attribute – Small Font Size, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.5.4.2, Expected Sequence 6.5.

##### 27.22.4.8.6.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.5.

#### 27.22.4.8.6.6 SET UP MENU (support of Text Attribute – Bold On) and ENVELOPE MENU SELECTION

##### 27.22.4.8.6.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.8.6.6.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.8.6.6.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

##### 27.22.4.8.6.6.4 Method of test

##### 27.22.4.8.6.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

## 27.22.4.8.6.6.4.2 Procedure

**Expected Sequence 6.6 (SET UP MENU, Text Attribute – Bold On, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.6.4.2, Expected Sequence 6.6.

## 27.22.4.8.6.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.6.

## 27.22.4.8.6.7 SET UP MENU (support of Text Attribute – Italic On) and ENVELOPE MENU SELECTION

## 27.22.4.8.6.7.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.8.6.7.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

## 27.22.4.8.6.7.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

## 27.22.4.8.6.7.4 Method of test

## 27.22.4.8.6.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

## 27.22.4.8.6.7.4.2 Procedure

**Expected Sequence 6.7 (SET UP MENU, Text Attribute – Italic On, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.7.4.2, Expected Sequence 6.7.

## 27.22.4.8.6.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.7.

## 27.22.4.8.6.8 SET UP MENU (support of Text Attribute – Underline On) and ENVELOPE MENU SELECTION

## 27.22.4.8.6.8.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.8.6.8.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

#### 27.22.4.8.6.8.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

#### 27.22.4.8.6.8.4 Method of test

##### 27.22.4.8.6.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

##### 27.22.4.8.6.8.4.2 Procedure

#### **Expected Sequence 6.8 (SET UP MENU, Text Attribute – Underline On, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.8.4.2, Expected Sequence 6.8.

##### 27.22.4.8.6.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.8.

#### 27.22.4.8.6.9 SET UP MENU (support of Text Attribute – Strikethrough On) and ENVELOPE MENU SELECTION

##### 27.22.4.8.6.9.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.8.6.9.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.8.6.9.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.9.4 Method of test

27.22.4.8.6.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

27.22.4.8.6.9.4.2 Procedure

**Expected Sequence 6.9 (SET UP MENU, Text Attribute – Strikethrough On, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.9.4.2, Expected Sequence 6.9.

27.22.4.8.6.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.9.

27.22.4.8.6.10 SET UP MENU (support of Text Attribute – Foreground and Background Colour) and ENVELOPE MENU SELECTION

27.22.4.8.6.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.8.6.10.2 Conformance requirement

Requirements are the same as in clause 27.22.4.8.1.1, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.8.6.10.3 Test purpose

To verify that the ME correctly integrates the menu items contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that text is displayed according to the text attribute configuration within the command Set Up Menu and the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

27.22.4.8.6.10.4 Method of test

27.22.4.8.6.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

27.22.4.8.6.10.4.2 Procedure

**Expected Sequence 6.10 (SET UP MENU, Text Attribute – Foreground and Background Colour, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.6.10.4.2, Expected Sequence 6.10.

## 27.22.4.8.6.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.10.

## 27.22.4.8.7 SET UP MENU (UCS2 display in Cyrillic) and ENVELOPE MENU SELECTION

## 27.22.4.8.7.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.8.7.2 Conformance requirement

The ME shall support the SET UP MENU command as defined in:

- TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4.

The ME shall support MENU SELECTION as defined in:

- TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.
- Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in ISO/IEC 10646 [17].

## 27.22.4.8.7.3 Test purpose

To verify that the ME correctly integrates the menu items in UCS2 coding contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user has indicated the need to get help information on one of the items, the ME informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

## 27.22.4.8.7.4 Method of test

## 27.22.4.8.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

## 27.22.4.8.7.4.2 Procedure

**Expected Sequence 7.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu, with UCS2 in Cyrillic Characters)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.7.4.2, Expected Sequence 7.1.



#### 27.22.4.8.7.5 Test requirement

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

#### 27.22.4.8.8 SET UP MENU (UCS2 display in Chinese) and ENVELOPE MENU SELECTION

##### 27.22.4.8.8.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.8.8.2 Conformance requirement

The ME shall support the SET UP MENU command as defined in:

- TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4

The ME shall support MENU SELECTION as defined in:

- TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.
- Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in ISO/IEC 10646 [17].

##### 27.22.4.8.8.3 Test purpose

To verify that the ME correctly integrates the menu items in UCS2 coding contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user has indicated the need to get help information on one of the items, the ME informs properly the UICC about a HELP REQUEST, using the MENU SELECTION mechanism.

##### 27.22.4.8.8.4 Method of test

###### 27.22.4.8.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

###### 27.22.4.8.8.4.2 Procedure

#### **Expected Sequence 8.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu, with UCS2 – Chinese characters)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.8.4.2, Expected Sequence 8.1.

## 27.22.4.8.8.5 Test requirement

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

## 27.22.4.8.9 SET UP MENU (UCS2 display in Katakana) and ENVELOPE MENU SELECTION

## 27.22.4.8.9.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.8.9.2 Conformance requirement

The ME shall support the SET UP MENU command as defined in:

- TS 31.111 [15] clause 5, clause 6.4.8, clause 6.6.7, clause 6.8, clause 6.11, clause 8.6, clause 8.7, clause 8.2, clause 8.9 and clause 9.4.

The ME shall support MENU SELECTION as defined in:

- TS 31.111 [15] clause 4.4, clause 5.2, clause 6.4.8, clause 6.9, clause 7.2, clause 8.7 and clause 8.10.
- Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in ISO/IEC 10646 [17].

## 27.22.4.8.9.3 Test purpose

To verify that the ME correctly integrates the menu items in UCS2 coding contained in the SET UP MENU proactive UICC command, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME replaces the current list of menu items with the list of menu items contained in the SET UP MENU command.

To verify that the ME removes the current list of menu items following receipt of a SET UP MENU command with no items.

To verify that the ME correctly passes the identifier of the selected menu item to the UICC using the ENVELOPE (MENU SELECTION) command.

To verify that when the help is available for the command and the user has indicated the need to get help information on one of the items, the ME informs properly the UICC about an HELP REQUEST, using the MENU SELECTION mechanism.

## 27.22.4.8.9.4 Method of test

## 27.22.4.8.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

The ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

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

## 27.22.4.8.9.4.2 Procedure

**Expected Sequence 9.1 (SET UP MENU and MENU SELECTION, without Help Request, Replace and Remove a Toolkit Menu, with UCS2 in Katakana Characters)**

See ETSI TS 102 384 [26] in subclause 27.22.4.8.9.4.2, Expected Sequence 9.1.

## 27.22.4.8.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.1.

## 27.22.4.9 SELECT ITEM

## 27.22.4.9.1 SELECT ITEM (mandatory features for ME supporting SELECT ITEM)

## 27.22.4.9.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.9.1.2 Conformance requirement

The ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.

## 27.22.4.9.1.3 Test purpose

To verify that the ME correctly presents the set of items contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the ME returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

## 27.22.4.9.1.4 Method of test

## 27.22.4.9.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

## 27.22.4.9.1.4.2 Procedure

**Expected Sequence 1.1 (SELECT ITEM, mandatory features, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.1.

**Expected Sequence 1.2 (SELECT ITEM, large menu, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.2.

**Expected Sequence 1.3 (SELECT ITEM, call options, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.3.

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

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.4.

**Expected Sequence 1.5 (SELECT ITEM, "Y", successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.5.

**Expected Sequence 1.6 (SELECT ITEM, Large menu, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.1.4.2, Expected Sequence 1.6.

The following table details the test commands with relation to the tested features:

| Proactive UICC Command SELECT ITEM Number | Proactive UICC Command Facilities |                 |                        |
|---|-----------------------------------|-----------------|------------------------|
|   | Alpha Identifier Length           | Number of items | Maximum length of item |
| 1.1                                       | 14                                | 4               | 6                      |
| 1.2                                       | 10                                | 30              | 8                      |
| 1.3                                       | 10                                | 7               | 43                     |
| 1.4                                       | 11                                | 2               | 3                      |
| 1.5                                       | 236                               | 1               | 1                      |
| 1.6                                       | 10                                | 7               | 37                     |

## 27.22.4.9.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1, 1.2, 1.3, 1.4, 1.5 and 1.6 (SELECT ITEM, mandatory features).

## 27.22.4.9.2 SELECT ITEM (next action support)

## 27.22.4.9.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.9.2.2 Conformance Requirement

Same as clause 27.22.4.9.1.2.

## 27.22.4.9.2.3 Test purpose

To verify that the mobile supports next action indicator mode.

## 27.22.4.9.2.4 Method of test

## 27.22.4.9.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

## 27.22.4.9.2.4.2 Procedure

**Expected Sequence 2.1 (SELECT ITEM, next action indicator, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.2.4.2, Expected Sequence 2.1.

## 27.22.4.9.2.5 Test requirement

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

**27.22.4.9.3 SELECT ITEM (default item support)****27.22.4.9.3.1 Definition and applicability**

See clause 3.2.2.

**27.22.4.9.3.2 Conformance requirement**

Same as clause 27.22.4.9.1.2.

**27.22.4.9.3.3 Test purpose**

To verify that the mobile supports "default item" mode.

**27.22.4.9.3.4 Method of test****27.22.4.9.3.4.1 Initial conditions**

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

**27.22.4.9.3.4.2 Procedure****Expected Sequence 3.1 (SELECT ITEM, default item, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.3.4.2, Expected Sequence 3.1.

**27.22.4.9.3.5 Test requirement**

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

**27.22.4.9.4 SELECT ITEM (help request support)****27.22.4.9.4.1 Definition and applicability**

See clause 3.2.2.

**27.22.4.9.4.2 Conformance requirement**

Same as clause 27.22.4.9.1.2.

**27.22.4.9.4.3 Test purpose**

To verify that the mobile supports "help request" for the command Select Item.

**27.22.4.9.4.4 Method of test****27.22.4.9.4.4.1 Initial conditions**

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.9.4.4.2 Procedure

**Expected Sequence 4.1 (SELECT ITEM, help request, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.4.4.2, Expected Sequence 4.1.

27.22.4.9.4.5 Test requirement

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

27.22.4.9.5 SELECT ITEM (icons support)

27.22.4.9.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.5.2 Conformance requirement

Same as clause 27.22.4.9.1.2 and TS 31.111 [15] clause 8.31 and clause 8.32.

27.22.4.9.5.3 Test purpose

To verify that the mobile displays icons with the command Select Item.

27.22.4.9.5.4 Method of test

27.22.4.9.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.9.5.4.2 Procedure

**Expected Sequence 5.1A (SELECT ITEM, BASIC ICON NOT SELF EXPLANATORY, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.5.4.2, Expected Sequence 5.1A.

**Expected Sequence 5.1B (SELECT ITEM, BASIC ICON NOT SELF EXPLANATORY, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.5.4.2, Expected Sequence 5.1B.

**Expected Sequence 5.2A (SELECT ITEM, BASIC ICON SELF EXPLANATORY, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.5.4.2, Expected Sequence 5.2A.

**Expected Sequence 5.2B (SELECT ITEM, BASIC ICON SELF EXPLANATORY, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.5.4.2, Expected Sequence 5.2B.

27.22.4.9.5.5 Test requirement

The ME shall operate in the manner defined in expected sequences 5.1A to 5.2B.

#### 27.22.4.9.6 SELECT ITEM (presentation style)

##### 27.22.4.9.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.9.6.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

##### 27.22.4.9.6.3 Test purpose

To verify that the mobile supports the "presentation style" with the command Select Item.

##### 27.22.4.9.6.4 Method of test

###### 27.22.4.9.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

###### 27.22.4.9.6.4.2 Procedure

#### **Expected Sequence 6.1 (SELECT ITEM, PRESENTATION AS A CHOICE OF NAVIGATION OPTIONS, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.6.4.2, Expected Sequence 6.1.

#### **Expected Sequence 6.2 (SELECT ITEM, PRESENTATION AS A CHOICE OF DATA VALUES, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.6.4.2, Expected Sequence 6.2.

##### 27.22.4.9.6.5 Test requirement

The ME shall operate in the manner defined in expected sequences 6.1 and 6.2.

#### 27.22.4.9.7 SELECT ITEM (soft keys support)

##### 27.22.4.9.7.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.9.7.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

##### 27.22.4.9.7.3 Test purpose

To verify that the mobile supports the "soft keys" with the command Select Item.

##### 27.22.4.9.7.4 Method of test

###### 27.22.4.9.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

#### 27.22.4.9.7.4.2 Procedure

##### **Expected Sequence 7.1 (SELECT ITEM, SELECTING USING SOFT KEYS PREFERRED, successful, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.7.4.2, Expected Sequence 7.1.

#### 27.22.4.9.7.5 Test requirement

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

#### 27.22.4.9.8 SELECT ITEM (Support of "No response from user")

##### 27.22.4.9.8.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.9.8.2 Conformance requirement

Same as clause 27.22.4.9.1.2.

##### 27.22.4.9.8.3 Test purpose

To verify that after a period of user inactivity the ME returns a "No response from user" result value in the TERMINAL RESPONSE command sent to the UICC.

##### 27.22.4.9.8.4 Method of test

###### 27.22.4.9.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

The ME Manufacturer shall have defined the "no response from user" period of time as declared in table A.2/4.

The USIM Simulator shall be set to that period of time.

###### 27.22.4.9.8.4.2 Procedure

##### **Expected Sequence 8.1 (SELECT ITEM, no response from user)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.8.4.2, Expected Sequence 8.1.

###### 27.22.4.9.8.5 Test requirement

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



### 27.22.4.9.9 SELECT ITEM (Support of Text Attribute)

#### 27.22.4.9.9.1 SELECT ITEM (Support of Text Attribute – Left Alignment)

##### 27.22.4.9.9.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.9.9.1.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.9.9.1.3 Test purpose

To verify that the ME displays text formatted according to the left alignment text attribute configuration within the command Select Item.

##### 27.22.4.9.9.1.4 Method of test

###### 27.22.4.9.9.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

###### 27.22.4.9.9.1.4.2 Procedure

#### **Expected Sequence 9.1 (SELECT ITEM, Text Attribute – Left Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.1.4.2, Expected Sequence 9.1.

##### 27.22.4.9.9.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.1.

### 27.22.4.9.9.2 SELECT ITEM (Support of Text Attribute – Center Alignment)

#### 27.22.4.9.9.2.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.9.9.2.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

#### 27.22.4.9.9.2.3 Test purpose

To verify that the ME displays text formatted according to the center alignment text attribute configuration within the command Select Item.

27.22.4.9.9.2.4 Method of test

27.22.4.9.9.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.9.9.2.4.2 Procedure

#### **Expected Sequence 9.2 (SELECT ITEM, Text Attribute – Center Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.2.4.2, Expected Sequence 9.2.

27.22.4.9.9.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.2.

27.22.4.9.9.3 SELECT ITEM (Support of Text Attribute – Right Alignment)

27.22.4.9.9.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.9.9.3.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.3.3 Test purpose

To verify that the ME displays text formatted according to the right alignment text attribute configuration within the command Select Item.

27.22.4.9.9.3.4 Method of test

27.22.4.9.9.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.9.9.3.4.2 Procedure

#### **Expected Sequence 9.3 (SELECT ITEM, Text Attribute – Right Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.3.4.2, Expected Sequence 9.3.

27.22.4.9.9.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.3.

#### 27.22.4.9.9.4 SELECT ITEM (Support of Text Attribute – Large Font Size)

##### 27.22.4.9.9.4.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.9.9.4.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.9.9.4.3 Test purpose

To verify that the ME displays text formatted according to the large font size text attribute configuration within the command Select Item.

##### 27.22.4.9.9.4.4 Method of test

###### 27.22.4.9.9.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

###### 27.22.4.9.9.4.4.2 Procedure

#### **Expected Sequence 9.4 (SELECT ITEM, Text Attribute – Large Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.4.4.2, Expected Sequence 9.4.

###### 27.22.4.9.9.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.4.

#### 27.22.4.9.9.5 SELECT ITEM (Support of Text Attribute – Small Font Size)

##### 27.22.4.9.9.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.9.9.5.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.9.9.5.3 Test purpose

To verify that the ME displays text formatted according to the small font size text attribute configuration within the command Select Item.

##### 27.22.4.9.9.5.4 Method of test

###### 27.22.4.9.9.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

#### 27.22.4.9.9.5.4.2 Procedure

##### **Expected Sequence 9.5 (SELECT ITEM, Text Attribute – Small Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.5.4.2, Expected Sequence 9.5.

#### 27.22.4.9.9.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.5.

#### 27.22.4.9.9.6 SELECT ITEM (Support of Text Attribute – Bold On)

##### 27.22.4.9.9.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.9.9.6.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.9.9.6.3 Test purpose

To verify that the ME displays text formatted according to the bold text attribute configuration within the command Select Item.

##### 27.22.4.9.9.6.4 Method of test

###### 27.22.4.9.9.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

#### 27.22.4.9.9.6.4.2 Procedure

##### **Expected Sequence 9.6 (SELECT ITEM, Text Attribute – Bold On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.6.4.2, Expected Sequence 9.6.

#### 27.22.4.9.9.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.6.

#### 27.22.4.9.9.7 SELECT ITEM (Support of Text Attribute – Italic On)

##### 27.22.4.9.9.7.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.9.9.7.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

#### 27.22.4.9.9.7.3 Test purpose

To verify that the ME displays text formatted according to the italic text attribute configuration within the command Select Item.

#### 27.22.4.9.9.7.4 Method of test

##### 27.22.4.9.9.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

##### 27.22.4.9.9.7.4.2 Procedure

#### **Expected Sequence 9.7 (SELECT ITEM, Text Attribute – Italic On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.7.4.2, Expected Sequence 9.7.

##### 27.22.4.9.9.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.7.

#### 27.22.4.9.9.8 SELECT ITEM (Support of Text Attribute – Underline On)

##### 27.22.4.9.9.8.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.9.9.8.2 Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

##### 27.22.4.9.9.8.3 Test purpose

To verify that the ME displays text formatted according to the underline text attribute configuration within the command Select Item.

##### 27.22.4.9.9.8.4 Method of test

##### 27.22.4.9.9.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

##### 27.22.4.9.9.8.4.2 Procedure

#### **Expected Sequence 9.8 (SELECT ITEM, Text Attribute – Underline On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.8.4.2, Expected Sequence 9.8.

##### 27.22.4.9.9.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.8.

27.22.4.9.9.9           SELECT ITEM (Support of Text Attribute – Strikethrough On)

27.22.4.9.9.9.1       Definition and applicability

See clause 3.2.2.

27.22.4.9.9.9.2       Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.9.3       Test purpose

To verify that the ME displays text formatted according to the strikethrough text attribute configuration within the command Select Item.

27.22.4.9.9.9.4       Method of test

27.22.4.9.9.9.4.1     Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

27.22.4.9.9.9.4.2     Procedure

#### **Expected Sequence 9.9 (SELECT ITEM, Text Attribute – Strikethrough On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.4.2, Expected Sequence 9.9.

27.22.4.9.9.9.5       Test requirement

The ME shall operate in the manner defined in expected sequence 9.9.

27.22.4.9.9.10        SELECT ITEM (Support of Text Attribute – Foreground and Background Colour)

27.22.4.9.9.10.1     Definition and applicability

See clause 3.2.2.

27.22.4.9.9.10.2     Conformance requirement

Requirements are the same as in clause 27.22.4.9.1.2, with an additional one:

- 3GPP 31.111 [15] clauses 6.5.4, 8.70 and 8.71.

27.22.4.9.9.10.3     Test purpose

To verify that the ME displays text formatted according to the foreground and background colour text attribute configuration within the command Select Item.

27.22.4.9.9.10.4     Method of test

27.22.4.9.9.10.4.1   Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

#### 27.22.4.9.9.10.4.2 Procedure

##### **Expected Sequence 9.10 (SELECT ITEM, Text Attribute – Foreground and Background Colour)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.9.10.4.2, Expected Sequence 9.10.

#### 27.22.4.9.9.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 9.10.

#### 27.22.4.9.10 SELECT ITEM (UCS2 display in Cyrillic)

##### 27.22.4.9.10.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.9.10.2 Conformance requirement

The ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.
- Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic characters, as defined in ISO/IEC 10646 [17].

##### 27.22.4.9.10.3 Test purpose

To verify that the ME correctly presents the set of items in UCS2 coding contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the ME returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

##### 27.22.4.9.10.4 Method of test

###### 27.22.4.9.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

#### 27.22.4.9.10.4.2 Procedure

##### **Expected Sequence 10.1 (SELECT ITEM with UCS2 in Cyrillic characters, 0x80 UCS2 coding, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.10.4.2, Expected Sequence 10.1.

**Expected Sequence 10.2 (SELECT ITEM with UCS2 in Cyrillic characters, 0x81 UCS2 coding, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.10.4.2, Expected Sequence 10.2.

**Expected Sequence 10.3 (SELECT ITEM with UCS2 in Cyrillic characters, 0x82 UCS2 coding, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.10.4.2, Expected Sequence 10.3.

**27.22.4.9.10.5 Test requirement**

The ME shall operate in the manner defined in expected sequences 10.1 to 10.3.

**27.22.4.9.11 SELECT ITEM (UCS2 display in Chinese)****27.22.4.9.11.1 Definition and applicability**

See clause 3.2.2.

**27.22.4.9.11.2 Conformance requirement**

The ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.
- Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in ISO/IEC 10646 [17].

**27.22.4.9.11.3 Test purpose**

To verify that the ME correctly presents the set of items in UCS2 coding contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the ME returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

**27.22.4.9.11.4 Method of test****27.22.4.9.11.4.1 Initial conditions**

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

**27.22.4.9.11.4.2 Procedure****Expected Sequence 11.1 (SELECT ITEM with UCS2 in Chinese characters, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.11.4.2, Expected Sequence 11.1.



## 27.22.4.9.11.5 Test requirement

The ME shall operate in the manner defined in expected sequence 11.1.

## 27.22.4.9.12 SELECT ITEM (UCS2 display in Katakana)

## 27.22.4.9.12.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.9.12.2 Conformance requirement

The ME shall support the Proactive UICC: Select Item facility as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 6.4.9, clause 6.6.8, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.9, clause 9.4 and clause 10.
- Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in ISO/IEC 10646 [17].

## 27.22.4.9.12.3 Test purpose

To verify that the ME correctly presents the set of items in UCS2 coding contained in the SELECT ITEM proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC with the identifier of the item chosen.

To verify that the ME allows a SELECT ITEM proactive UICC command within the maximum 255 byte BER-TLV boundary.

To verify that the ME returns a TERMINAL RESPONSE with "Proactive UICC application session terminated by the user", if the user has indicated the need to end the proactive UICC session.

To verify that the ME returns a TERMINAL RESPONSE with "Backwards move in the proactive UICC application session requested by the user", if the user has indicated the need to go backwards in the proactive UICC application session.

## 27.22.4.9.12.4 Method of test

## 27.22.4.9.12.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

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

## 27.22.4.9.12.4.2 Procedure

**Expected Sequence 12.1 (SELECT ITEM with UCS2 in Katakana characters, 0x80 UCS2 coding, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.12.4.2, Expected Sequence 12.1.

**Expected Sequence 12.2 (SELECT ITEM with UCS2 - Katakana characters, 0x81 UCS2 coding, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.12.4.2, Expected Sequence 12.2.

**Expected Sequence 12.3 (SELECT ITEM with UCS2 - Katakana characters, 0x82 UCS2 coding, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.9.12.4.2, Expected Sequence 12.3.

## 27.22.4.9.12.5 Test requirement

The ME shall operate in the manner defined in expected sequences 12.1 to 12.3.

## 27.22.4.10 SEND SHORT MESSAGE

## 27.22.4.10.1 SEND SHORT MESSAGE (normal)

## 27.22.4.10.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.10.1.2 Conformance requirement

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

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

## 27.22.4.10.1.3 Test purpose

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

## 27.22.4.10.1.4 Method of test

## 27.22.4.10.1.4.1 Initial conditions

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

## 27.22.4.10.1.4.2 Procedure

**Expected Sequence 1.1 (Void)**

**Expected Sequence 1.2 (Void)**

**Expected Sequence 1.3 (Void)**

**Expected Sequence 1.4 (Void)**

**Expected Sequence 1.5 (Void)**

**Expected Sequence 1.6 (Void)**

**Expected Sequence 1.7 (Void)**

**Expected Sequence 1.8 (Void)**

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

Perform the "CS related procedure" and continue with "Generic Test Procedure 1 (SEND SHORT MESSAGE)" as defined clause 27.22.4.10.7.4.2 as "Expected Sequence 1.9" with the following parameters:

- Used Network Simulator (NWS): USS (UMTS System Simulator or System Simulator)
- CS is used to send and receive short messages
- ME supports UTRAN or GERAN

**CS related procedure:**

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

## 27.22.4.10.1.5 Test requirement

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

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

## 27.22.4.10.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.10.2.2 Conformance requirement

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

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

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

## 27.22.4.10.2.3 Test purpose

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

## 27.22.4.10.2.4 Method of test

## 27.22.4.10.2.4.1 Initial conditions

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

## 27.22.4.10.2.4.2 Procedure

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

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

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.1

Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "ЗДРАВСТВУЙТЕ"  
 Address  
 TON: International number  
 NPI: "ISDN / telephone numbering plan"  
 Dialling number string "112233445566778"  
 SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345678"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding 16-bit data  
 Message class class 0  
 TP-UDL 24  
 TP-UD "ЗДРАВСТВУЙТЕ"

Coding:

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

SMS-PP (SEND SHORT MESSAGE) Message 2.1

Logically:

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "01"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345678"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding UCS2 (16-bit data)  
 Message class class 0  
 TP-UDL 24  
 TP-UD "ЗДРАВСТВУЙТЕ"

Coding:

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.2

Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "ЗДРАВСТВУЙТЕ"

## Address

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

## SMS TPDU

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

Coding:

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.3

Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "ЗДРАВСТВУЙТЕ"

## Address

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

## SMS TPDU

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

## Coding:

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

## TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1

## Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

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

## 27.22.4.10.2.5 Test requirement

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

## 27.22.4.10.3 SEND SHORT MESSAGE (icon support)

## 27.22.4.10.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.3.2 Conformance requirement

27.22.4.10.3.3 Test purpose

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

27.22.4.10.3.4 Method of test

27.22.4.10.3.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

27.22.4.10.3.4.2 Procedure

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

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 3.1.1

Logically:

Command details

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

Device identities

Source device: UICC  
Destination device: Network  
Alpha identifier: "NO ICON"

Address

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

SMS TPDU

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



|                 |                                   |
|-----------------|-----------------------------------|
| TP-MR           | "00"                              |
| TP-DA           |                                   |
| TON             | International number              |
| NPI             | "ISDN / telephone numbering plan" |
| Address value   | "012345678"                       |
| TP-PID          | Short message type 0              |
| TP-DCS          |                                   |
| Message coding  | 8bit-data                         |
| Message class   | class 0                           |
| TP-UDL          | 12                                |
| TP-UD           | "Test Message"                    |
| Icon Identifier |                                   |
| Icon Qualifier  | self-explanatory                  |
| Icon Identifier | 1 (number of record in EF IMG)    |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 3B | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 07 | 4E | 4F | 20 | 49 | 43 | 4F | 4E | 86 | 09 | 91 | 11 |
|          | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 18 | 01 | 00 | 09 |
|          | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C | 54 | 65 | 73 |
|          | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 | 9E | 02 | 00 |
|          | 01 |    |    |    |    |    |    |    |    |    |    |    |

SMS-PP (SEND SHORT MESSAGE) Message 3.1

Logically:

SMS TPDU

|                |  |
|----------------|--|
| TP-MTI         | SMS-SUBMIT                                       |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                          |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT      |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested                 |
| TP-MR          | "01"   |
| TP-DA          |  |
| TON            | International number                             |
| NPI            | "ISDN / telephone numbering plan"                |
| Address value  | "012345678"                                      |
| TP-PID         | Short message type 0                             |
| TP-DCS         |  |
| Message coding | 8-bit data                                       |
| Message class  | class 0  |
| TP-UDL         | 12   |
| TP-UD          | "Test Message"                                   |

Coding:

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1A

Logically:

Command details

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

Device identities

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

Coding:

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

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

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.1.1B

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

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

Coding:

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

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

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1

Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

## Alpha Identifier

Address "Send SM"

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

## SMS TPDU

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

## Icon Identifier

Icon Qualifier non-self-explanatory  
 Icon Identifier 1 (number of record in EF IMG)

Coding:

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

## SMS-PP (SEND SHORT MESSAGE) Message 3.2

Logically:

## SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "01"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"

Address value "012345678"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding 8-bit data  
 Message class class 0  
 TP-UDL 12  
 TP-UD "Test Message"

Coding:

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1A

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

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

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1B

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

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

Coding:

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

#### 27.22.4.10.3.5 Test requirement

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

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

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

###### 27.22.4.10.4.1.1 Definition and applicability

See clause 3.2.2.

###### 27.22.4.10.4.1.2 Conformance requirement

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

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

###### 27.22.4.10.4.1.3 Test purpose

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

###### 27.22.4.10.4.1.4 Method of test

###### 27.22.4.10.4.1.4.1 Initial conditions

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

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

## 27.22.4.10.4.1.4.2 Procedure

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

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.1

Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

## SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

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

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

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

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

SMS-PP (SEND SHORT MESSAGE) Message 4.1

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

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

|                |   |
|----------------|---|
| TP-UDHI        | The TP-UD field contains only the short message |
| TP-SRR         | A status report is not requested                |
| TP-MR          | "01"  |
| TP-DA          |   |
| TON            | International number                            |
| NPI            | "ISDN / telephone numbering plan"               |
| Address value  | "01"  |
| TP-PID         | Short message type 0                            |
| TP-DCS         |   |
| Message coding | SMS default alphabet                            |
| Message class  | class 0   |
| TP-UDL         | 1   |
| TP-UD          | " "   |

Coding:

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1

Logically:

Command details

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

Device identities

|                     |      |
|---------------------|------|
| Source device:      | ME   |
| Destination device: | UICC |

Result

|                 |                                |
|-----------------|--------------------------------|
| General Result: | Command performed successfully |
|-----------------|--------------------------------|

Coding:

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

27.22.4.10.4.1.5 Test requirement

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

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

27.22.4.10.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.4.2.2 Conformance requirement

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

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

27.22.4.10.4.2.3 Test purpose

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



27.22.4.10.4.2.4 Method of test

27.22.4.10.4.2.4.1 Initial conditions

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

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

27.22.4.10.4.2.4.2 Procedure

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

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.1

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"

TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.2

Logically:

Command details  
 Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required  
 Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 2"  
 SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "

Coding:

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

## TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

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

## 27.22.4.10.4.2.5 Test requirement

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

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

## 27.22.4.10.4.3.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.10.4.3.2 Conformance requirement

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

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

## 27.22.4.10.4.3.3 Test purpose

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

## 27.22.4.10.4.3.4 Method of test

## 27.22.4.10.4.3.4.1 Initial conditions

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

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

## 27.22.4.10.4.3.4.2 Procedure

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

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.1

Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

## SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.2

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "

Coding:

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.3.1

Logically:

Command details

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

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

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

## 27.22.4.10.4.3.5 Test requirement

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

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

## 27.22.4.10.4.4.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.10.4.4.2 Conformance requirement

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

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

## 27.22.4.10.4.4.3 Test purpose

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

## 27.22.4.10.4.4.4 Method of test

## 27.22.4.10.4.4.4.1 Initial conditions

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

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

## 27.22.4.10.4.4.2 Procedure

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

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1

Logically:

Command details

Command number: 1  
Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

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

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

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

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

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

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS



Message coding           SMS default alphabet  
 Message class           class 0  
 TP-UDL                 1  
 TP-UD                 " "  
 Text Attribute  
   Formatting position:   0  
   Formatting length:    16  
   Formatting mode:      Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
   Colour:                Dark Green Foreground, Bright Yellow Background

Coding:

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

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.3

Logically:

Command details  
   Command number:       1  
   Command type:         SEND SHORT MESSAGE  
   Command qualifier:    packing not required  
 Device identities  
   Source device:        UICC  
   Destination device:   Network  
 Alpha identifier:        "Text Attribute 3"  
 SMS TPDU  
   TP-MTI                SMS-SUBMIT  
   TP-RD                 Instruct the SC to accept an SMS-SUBMIT for a SM  
   TP-VPF                TP-VP field not present  
   TP-RP                 TP-Reply-Path is not set in this SMS-SUBMIT  
   TP-UDHI               The TP-UD field contains only the short message  
   TP-SRR                A status report is not requested  
   TP-MR                 "00"  
   TP-DA  
   TON                    International number  
   NPI                    "ISDN / telephone numbering plan"  
   Address value         "01"  
   TP-PID                 Short message type 0  
   TP-DCS  
   Message coding        SMS default alphabet  
   Message class         class 0  
   TP-UDL                1  
   TP-UD                 " "

Coding:

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

#### TERMINAL RESPONSE: SEND SHORT MESSAGE 4.4.1

Logically:

Command details  
   Command number:       1

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

Coding:

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

#### 27.22.4.10.4.4.5 Test requirement

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

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

##### 27.22.4.10.4.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.10.4.5.2 Conformance requirement

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

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

##### 27.22.4.10.4.5.3 Test purpose

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

##### 27.22.4.10.4.5.4 Method of test

###### 27.22.4.10.4.5.4.1 Initial conditions

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

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

## 27.22.4.10.4.5.4.2 Procedure

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

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.5.1 |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.5.1            | [packing not required, SMS default alphabet]          |
| 4    | ME → USER | Display "Text Attribute 1"                                | [Message shall be formatted with small font<br>size]  |
| 5    | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |   |
| 6    | USS → ME  | SMS RP-ACK  |   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.5.1            | [Command performed successfully]                      |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.5.2 |   |
| 9    | ME → UICC | FETCH   |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.5.2            | [packing not required, SMS default alphabet]          |
| 11   | ME → USER | Display "Text Attribute 2"                                | [Message shall be formatted with normal font<br>size] |
| 12   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |   |
| 13   | USS → ME  | SMS RP-ACK  |   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.5.1            | [Command performed successfully]                      |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.5.1 |   |
| 16   | ME → UICC | FETCH   |   |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.5.1            | [packing not required, SMS default alphabet]          |
| 18   | ME → USER | Display "Text Attribute 1"                                | [Message shall be formatted with small font<br>size]  |
| 19   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |   |
| 20   | USS → ME  | SMS RP-ACK  |   |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.5.1            | [Command performed successfully]                      |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.5.3 |   |
| 23   | ME → UICC | FETCH   |   |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.5.3            | [packing not required, SMS default alphabet]          |
| 25   | ME → USER | Display "Text Attribute 3"                                | [Message shall be formatted with normal font<br>size] |
| 26   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |   |
| 27   | USS → ME  | SMS RP-ACK  |   |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.5.1            | [Command performed successfully]                      |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1

Logically:

Command details

Command number: 1  
Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

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

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

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

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

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

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.3

Logically:

Command details  
 Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required  
 Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 3"  
 SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "

Coding:

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

### TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1

Logically:

Command details  
 Command number: 1

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

Coding:

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

#### 27.22.4.10.4.5.5 Test requirement

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

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

##### 27.22.4.10.4.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.10.4.6.2 Conformance requirement

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

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

##### 27.22.4.10.4.6.3 Test purpose

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

##### 27.22.4.10.4.6.4 Method of test

###### 27.22.4.10.4.6.4.1 Initial conditions

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

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

## 27.22.4.10.4.6.4.2 Procedure

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

| Step | Direction | MESSAGE / Action  | Comments                                     |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.6.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.6.1            | [packing not required, SMS default alphabet] |
| 4    | ME → USER | Display "Text Attribute 1"                                | [Message shall be formatted with bold on]    |
| 5    | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 6    | USS → ME  | SMS RP-ACK  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.6.1            | [Command performed successfully]             |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.6.2 |  |
| 9    | ME → UICC | FETCH   |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.6.2            | [packing not required, SMS default alphabet] |
| 11   | ME → USER | Display "Text Attribute 2"                                | [Message shall be formatted with bold off]   |
| 12   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 13   | USS → ME  | SMS RP-ACK  |  |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.6.1            | [Command performed successfully]             |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.6.1 |  |
| 16   | ME → UICC | FETCH   |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.6.1            | [packing not required, SMS default alphabet] |
| 18   | ME → USER | Display "Text Attribute 1"                                | [Message shall be formatted with bold on]    |
| 19   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 20   | USS → ME  | SMS RP-ACK  |  |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.6.1            | [Command performed successfully]             |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.6.3 |  |
| 23   | ME → UICC | FETCH   |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.6.3            | [packing not required, SMS default alphabet] |
| 25   | ME → USER | Display "Text Attribute 3"                                | [Message shall be formatted with bold off]   |
| 26   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 27   | USS → ME  | SMS RP-ACK  |  |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.6.1            | [Command performed successfully]             |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1

Logically:

Command details

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

Device identities

Source device: UICC

Destination device: Network  
Alpha identifier: "Text Attribute 1"  
SMS TPDU  
TP-MTI SMS-SUBMIT  
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
TP-VPF TP-VP field not present  
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
TP-UDHI The TP-UD field contains only the short message  
TP-SRR A status report is not requested  
TP-MR "00"  
TP-DA  
TON International number  
NPI "ISDN / telephone numbering plan"  
Address value "01"  
TP-PID Short message type 0  
TP-DCS  
Message coding SMS default alphabet  
Message class class 0  
TP-UDL 1  
TP-UD " "  
Text Attribute  
Formatting position: 0  
Formatting length: 16  
Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off  
Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.2

Logically:

Command details

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

Device identities

Source device: UICC  
Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT  
TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
TP-VPF TP-VP field not present  
TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
TP-UDHI The TP-UD field contains only the short message  
TP-SRR A status report is not requested  
TP-MR "00"  
TP-DA  
TON International number  
NPI "ISDN / telephone numbering plan"  
Address value "01"  
TP-PID Short message type 0  
TP-DCS  
Message coding SMS default alphabet  
Message class class 0  
TP-UDL 1



TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

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

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

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

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

## 27.22.4.10.4.6.5 Test requirement

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

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

## 27.22.4.10.4.7.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.10.4.7.2 Conformance requirement

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

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

## 27.22.4.10.4.7.3 Test purpose

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

## 27.22.4.10.4.7.4 Method of test

## 27.22.4.10.4.7.4.1 Initial conditions

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

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

## 27.22.4.10.4.7.4.2 Procedure

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

| Step | Direction | MESSAGE / Action  | Comments                                     |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.7.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.7.1            | [packing not required, SMS default alphabet] |
| 4    | ME → USER | Display "Text Attribute 1"                                | [Message shall be formatted with italic on]  |
| 5    | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 6    | USS → ME  | SMS RP-ACK  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.7.1            | [Command performed successfully]             |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.7.2 |  |
| 9    | ME → UICC | FETCH   |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.7.2            | [packing not required, SMS default alphabet] |
| 11   | ME → USER | Display "Text Attribute 2"                                | [Message shall be formatted with italic off] |
| 12   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 13   | USS → ME  | SMS RP-ACK  |  |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.7.1            | [Command performed successfully]             |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.7.1 |  |
| 16   | ME → UICC | FETCH   |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.7.1            | [packing not required, SMS default alphabet] |
| 18   | ME → USER | Display "Text Attribute 1"                                | [Message shall be formatted with italic on]  |
| 19   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 20   | USS → ME  | SMS RP-ACK  |  |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.7.1            | [Command performed successfully]             |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.7.3 |  |
| 23   | ME → UICC | FETCH   |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.7.3            | [packing not required, SMS default alphabet] |
| 25   | ME → USER | Display "Text Attribute 3"                                | [Message shall be formatted with italic off] |
| 26   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 27   | USS → ME  | SMS RP-ACK  |  |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.7.1            | [Command performed successfully]             |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1

Logically:

Command details

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

Device identities

Source device: UICC

Destination device: Network  
 Alpha identifier: "Text Attribute 1"  
 SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.2

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.3

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 3"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

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

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

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Coding:

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

### TERMINAL RESPONSE: SEND SHORT MESSAGE 4.7.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

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

## 27.22.4.10.4.7.5 Test requirement

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

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

## 27.22.4.10.4.8.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.10.4.8.2 Conformance requirement

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

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

## 27.22.4.10.4.8.3 Test purpose

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

## 27.22.4.10.4.8.4 Method of test

## 27.22.4.10.4.8.4.1 Initial conditions

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

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

## 27.22.4.10.4.8.4.2 Procedure

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

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.8.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.8.1            | [packing not required, SMS default alphabet]       |
| 4    | ME → USER | Display "Text Attribute 1"                                | [Message shall be formatted with underline<br>on]  |
| 5    | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 6    | USS → ME  | SMS RP-ACK  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.8.1            | [Command performed successfully]                   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.8.2 |  |
| 9    | ME → UICC | FETCH   |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.8.2            | [packing not required, SMS default alphabet]       |
| 11   | ME → USER | Display "Text Attribute 2"                                | [Message shall be formatted with underline<br>off] |
| 12   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 13   | USS → ME  | SMS RP-ACK  |  |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.8.1            | [Command performed successfully]                   |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.8.1 |  |
| 16   | ME → UICC | FETCH   |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.8.1            | [packing not required, SMS default alphabet]       |
| 18   | ME → USER | Display "Text Attribute 1"                                | [Message shall be formatted with underline<br>on]  |
| 19   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 20   | USS → ME  | SMS RP-ACK  |  |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.8.1            | [Command performed successfully]                   |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.8.3 |  |
| 23   | ME → UICC | FETCH   |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.8.3            | [packing not required, SMS default alphabet]       |
| 25   | ME → USER | Display "Text Attribute 3"                                | [Message shall be formatted with underline<br>off] |
| 26   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |  |
| 27   | USS → ME  | SMS RP-ACK  |  |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.8.1            | [Command performed successfully]                   |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1

Logically:

Command details

Command number: 1  
Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

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

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

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0

TP-UDL 1

TP-UD " "

Text Attribute

Formatting position: 0

Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

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

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

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS



Message coding           SMS default alphabet  
 Message class            class 0  
 TP-UDL                   1  
 TP-UD                    " "  
 Text Attribute  
   Formatting position:    0  
   Formatting length:     16  
   Formatting mode:       Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
   Colour:                 Dark Green Foreground, Bright Yellow Background

Coding:

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

### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.3

Logically:

Command details  
   Command number:       1  
   Command type:         SEND SHORT MESSAGE  
   Command qualifier:    packing not required  
 Device identities  
   Source device:         UICC  
   Destination device:   Network  
 Alpha identifier:        "Text Attribute 3"  
 SMS TPDU  
   TP-MTI                 SMS-SUBMIT  
   TP-RD                 Instruct the SC to accept an SMS-SUBMIT for a SM  
   TP-VPF                 TP-VP field not present  
   TP-RP                 TP-Reply-Path is not set in this SMS-SUBMIT  
   TP-UDHI               The TP-UD field contains only the short message  
   TP-SRR                 A status report is not requested  
   TP-MR                 "00"  
   TP-DA  
   TON                    International number  
   NPI                    "ISDN / telephone numbering plan"  
   Address value         "01"  
   TP-PID                 Short message type 0  
   TP-DCS  
   Message coding         SMS default alphabet  
   Message class         class 0  
   TP-UDL                 1  
   TP-UD                 " "

Coding:

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

### TERMINAL RESPONSE: SEND SHORT MESSAGE 4.8.1

Logically:

Command details  
   Command number:       1

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

Coding:

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

#### 27.22.4.10.4.8.5 Test requirement

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

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

##### 27.22.4.10.4.9.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.10.4.9.2 Conformance requirement

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

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

##### 27.22.4.10.4.9.3 Test purpose

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

##### 27.22.4.10.4.9.4 Method of test

###### 27.22.4.10.4.9.4.1 Initial conditions

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

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

## 27.22.4.10.4.9.4.2 Procedure

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

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.9.1 |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.9.1            | [packing not required, SMS default alphabet]          |
| 4    | ME → USER | Display "Text Attribute 1"                                | [Message shall be formatted with<br>striketrough on]  |
| 5    | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |   |
| 6    | USS → ME  | SMS RP-ACK  |   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.9.1            | [Command performed successfully]                      |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.9.2 |   |
| 9    | ME → UICC | FETCH   |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.9.2            | [packing not required, SMS default alphabet]          |
| 11   | ME → USER | Display "Text Attribute 2"                                | [Message shall be formatted with<br>striketrough off] |
| 12   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |   |
| 13   | USS → ME  | SMS RP-ACK  |   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.9.1            | [Command performed successfully]                      |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.9.1 |   |
| 16   | ME → UICC | FETCH   |   |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.9.1            | [packing not required, SMS default alphabet]          |
| 18   | ME → USER | Display "Text Attribute 1"                                | [Message shall be formatted with<br>striketrough on]  |
| 19   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |   |
| 20   | USS → ME  | SMS RP-ACK  |   |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.9.1            | [Command performed successfully]                      |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 4.9.3 |   |
| 23   | ME → UICC | FETCH   |   |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 4.9.3            | [packing not required, SMS default alphabet]          |
| 25   | ME → USER | Display "Text Attribute 3"                                | [Message shall be formatted with<br>striketrough off] |
| 26   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 4.1           |   |
| 27   | USS → ME  | SMS RP-ACK  |   |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 4.9.1            | [Command performed successfully]                      |

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1

Logically:

Command details

Command number: 1  
Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities  
 Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "

Text Attribute  
 Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.2

Logically:

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

Device identities  
 Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS

Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.3

Logically:

#### Command details

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

#### Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 3"

#### SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "

Coding:

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

### TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1

Logically:

#### Command details

Command number: 1

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

Coding:

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

#### 27.22.4.10.4.9.5 Test requirement

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

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

##### 27.22.4.10.4.10.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.10.4.10.2 Conformance requirement

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

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

##### 27.22.4.10.4.10.3 Test purpose

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

##### 27.22.4.10.4.10.4 Method of test

###### 27.22.4.10.4.10.4.1 Initial conditions

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

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

## 27.22.4.10.4.10.4.2 Procedure

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

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.1

Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

## SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.2

## Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

## Alpha identifier:

"Text Attribute 2"

## SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "01"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 1  
 TP-UD " "

## Coding:

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

## TERMINAL RESPONSE: SEND SHORT MESSAGE 4.10.1

## Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: UICC



## Result

General Result: Command performed successfully

## Coding:

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

## 27.22.4.10.4.10.5 Test requirement

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

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

## 27.22.4.10.5.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.10.5.2 Conformance requirement

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

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

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

## 27.22.4.10.5.3 Test purpose

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

## 27.22.4.10.5.4 Method of test

## 27.22.4.10.5.4.1 Initial conditions

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

## 27.22.4.10.5.4.2 Procedure

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

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 5.1.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 5.1.1            | [packing not required, 16-bit data]  |
| 4    | ME → USER | Display "中—"  | [Alpha Identifier]<br>"Middle 1" in Chinese, 0x80 coding of UCS2<br>format |
| 5    | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 5.1           |  |
| 6    | USS → ME  | SMS RP-ACK  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 5.1.1            | [Command performed successfully]   |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED                           |  |
| 9    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 5.1.2 |  |
| 10   | ME → UICC | FETCH   |  |
| 11   | UICC → ME | PROACTIVE COMMAND SEND<br>SHORT MESSAGE 5.1.2             |  |
| 12   | ME → USER | Display "中—"  | [Alpha Identifier]<br>"Middle 1" in Chinese, 0x81 coding of UCS2<br>format |
| 13   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 5.1           |  |
| 14   | USS → ME  | SMS RP-ACK  |  |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 5.1.1            | [Command performed successfully]   |
| 16   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED                           |  |
| 17   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 5.1.3 |  |
| 18   | ME → UICC | FETCH   |  |
| 19   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 5.1.3            | [UCS2 alphabet]  |
| 20   | ME → USER | Display "中—"  | [Alpha Identifier]<br>"Middle 1" in Chinese, 0x82 coding of UCS2<br>format |
| 21   | ME → USS  | Send SMS-PP (SEND SHORT<br>MESSAGE) Message 5.1           |  |
| 22   | USS → ME  | SMS RP-ACK  |  |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 5.1.1            | [Command performed successfully]   |
| 24   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED                           |  |

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.1

Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "中—"

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

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

Coding:

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

SMS-PP (SEND SHORT MESSAGE) Message 5.1

Logically:

SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "01"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345678"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding UCS2 (16-bit data)  
 Message class class 0  
 TP-UDL 24  
 TP-UD "中—"

Coding:

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.2

Logically:

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

Device identities  
 Source device: UICC  
 Destination device: Network

Alpha identifier: "中—"

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

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

Coding:

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.3

Logically:

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

Device identities  
 Source device: UICC  
 Destination device: Network

Alpha identifier: "中—"

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

SMS TPDU  
 TP-MTI SMS-SUBMIT

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

Coding:

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

27.22.4.10.5.5 Test requirement

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

27.22.4.10.6 SEND SHORT MESSAGE (UCS2 display in Katakana)

27.22.4.10.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.10.6.2 Conformance requirement

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

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

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

#### 27.22.4.10.6.3 Test purpose

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

#### 27.22.4.10.6.4 Method of test

##### 27.22.4.10.6.4.1 Initial conditions

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

## 27.22.4.10.6.4.2 Procedure

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

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

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.1

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "80ル0"

Address

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

## SMS TPDU

|                |   |
|----------------|---|
| TP-MTI         | SMS-SUBMIT                                      |
| TP-RD          | Instruct the SC to accept a SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                         |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT     |
| TP-UDHI        | The TP-UD field contains only the short message |
| TP-SRR         | A status report is not requested                |
| TP-MR          | "00"  |
| TP-DA          |   |
| TON            | International number                            |
| NPI            | "ISDN / telephone numbering plan"               |
| Address value  | "012345678"                                     |
| TP-PID         | Short message type 0                            |
| TP-DCS         |   |
| Message coding | 16-bit data                                     |
| Message class  | class 0   |
| TP-UDL         | 10  |
| TP-UD          | "80ル1"  |

## Coding:

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

## SMS-PP (SEND SHORT MESSAGE) Message 6.1

## Logically:

## SMS TPDU

|                |  |
|----------------|--|
| TP-MTI         | SMS-SUBMIT                                       |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                          |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT      |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested                 |
| TP-MR          | "01"   |
| TP-DA          |  |
| TON            | International number                             |
| NPI            | "ISDN / telephone numbering plan"                |
| Address value  | "012345678"                                      |
| TP-PID         | Short message type 0                             |
| TP-DCS         |  |
| Message coding | UCS2 (16-bit data)                               |
| Message class  | class 0  |
| TP-UDL         | 10   |
| TP-UD          | "80ル1"   |

## Coding:

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

## TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1

## Logically:

## Command details

Command number: 1



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

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.2

Logically:

Command details  
 Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required  
 Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "81ル1"  
 Address  
 TON: International number  
 NPI: "ISDN / telephone numbering plan"  
 Dialling number string "112233445566778"  
 SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept a SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345678"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding 16-bit data  
 Message class class 0  
 TP-UDL 10  
 TP-UD "80ル2"

Coding:

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

SMS-PP (SEND SHORT MESSAGE) Message 6.2

Logically:

SMS TPDU  
 TP-MTI SMS-SUBMIT

|                |  |
|----------------|--|
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                          |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT      |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested                 |
| TP-MR          | "01"   |
| TP-DA          |  |
| TON            | International number                             |
| NPI            | "ISDN / telephone numbering plan"                |
| Address value  | "012345678"                                      |
| TP-PID         | Short message type 0                             |
| TP-DCS         |  |
| Message coding | UCS2 (16-bit data)                               |
| Message class  | class 0  |
| TP-UDL         | 10   |
| TP-UD          | "80ル2"   |

Coding:

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.3

Logically:

## Command details

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

## Device identities

|                     |         |
|---------------------|---------|
| Source device:      | UICC    |
| Destination device: | Network |

Alpha identifier: "82ル2"

## Address

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

## SMS TPDU

|                |   |
|----------------|---|
| TP-MTI         | SMS-SUBMIT                                      |
| TP-RD          | Instruct the SC to accept a SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                         |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT     |
| TP-UDHI        | The TP-UD field contains only the short message |
| TP-SRR         | A status report is not requested                |
| TP-MR          | "00"  |
| TP-DA          |   |
| TON            | International number                            |
| NPI            | "ISDN / telephone numbering plan"               |
| Address value  | "012345678"                                     |
| TP-PID         | Short message type 0                            |
| TP-DCS         |   |
| Message coding | 16-bit data                                     |
| Message class  | class 0   |
| TP-UDL         | 10  |
| TP-UD          | "80ル3"  |

Coding:

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

## SMS-PP (SEND SHORT MESSAGE) Message 6.3

Logically:

## SMS TPDU

|                |  |
|----------------|--|
| TP-MTI         | SMS-SUBMIT                                       |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                          |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT      |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested                 |
| TP-MR          | "01"   |
| TP-DA          |  |
| TON            | International number                             |
| NPI            | "ISDN / telephone numbering plan"                |
| Address value  | "012345678"                                      |
| TP-PID         | Short message type 0                             |
| TP-DCS         |  |
| Message coding | UCS2 (16-bit data)                               |
| Message class  | class 0  |
| TP-UDL         | 10   |
| TP-UD          | "80ル3"   |

Coding:

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

## 27.22.4.10.6.5 Test requirement

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

## 27.22.4.10.7 SEND SHORT MESSAGE (IMS)

## 27.22.4.10.7.1 Definition and applicability

See clause 3.2.2.

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

## 27.22.4.10.7.2 Conformance requirement

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

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.
- TS 31.103 [35].
- TS 34.229-1 [36], Annexes C.2, C.17 and C.18.
- TS 24.341 [37], clause 5.3.1.

### 27.22.4.10.7.3 Test purpose

- 1) To verify that the ME correctly formats and sends a short message via IMS to the E-USS/USS as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.
- 2) To verify that the ME uses the default service address as indicated in EF SMSP if no service center address is available in the Send Short Message command.
- 3) To verify that a device of Class ND does not reject the Send Short Message command if the proactive Send Short Message command contains an alpha identifier.

### 27.22.4.10.7.4 Method of test

#### 27.22.4.10.7.4.1 Initial conditions

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

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

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

#### 27.22.4.10.7.4.2 Procedure

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

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

- Used Network Simulator (NWS): E-USS
- SMS-over-IP is used to send and receive short messages
- ME supports eFDD or eTDD and SMS-over-IP

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

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

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

**IMS related procedure 1:**

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

## Generic Test Procedure 1 (SEND SHORT MESSAGE)

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 7.1.1                 |  |
| 5    | ME → UICC | FETCH   |  |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 7.1.1                            | [packing not required, SMS default<br>alphabet]  |
| 7    | ME → NWS  | Send RP-DATA containing SMS-<br>PP (SEND SHORT MESSAGE)<br>Message 7.1    | See Note 1.<br><br>In case of SMS-over-IP the RP-<br>Destination Address (SM Service<br>Center Address within the RP-<br>DATA) is taken from the ISIM (EF<br>SMSP) |
| 8    | NWS → ME  | RP-ACK  | See Note 2.  |
| 9    | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 7.1.1                            | [Command performed successfully]   |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 7.1. 2                |  |
| 11   | ME → UICC | FETCH   |  |
| 12   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 7.1.2                            | [packing required, 8 bit data]   |
| 13   | ME → USER | Display "The address data object<br>holds the RP_Destination_Address<br>" | [Alpha Identifier not to be displayed<br>by Terminals of Class_ND]   |
| 14   | ME → NWS  | Send RP-DATA containing SMS-<br>PP(SEND SHORT MESSAGE)<br>Message 7.2     | See Note 1.  |
| 15   | NWS → ME  | RP-ACK  | See Note 2.  |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 7.1.2                            | [Command performed successfully]   |
| 17   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 7.1.3                 |  |
| 18   | ME → UICC | FETCH   |  |
| 19   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 7.1.3                            | [packing not required, SMS default<br>alphabet]  |
| 20   | ME → USER | Display "The address data object<br>holds the RP Destination Address "    | [Alpha Identifier not to be displayed<br>by Terminals of Class_ND]   |
| 21   | ME → NWS  | Send RP-DATA containing SMS-<br>PP (SEND SHORT MESSAGE)<br>Message 7.3    | See Note 1.  |
| 22   | NWS → ME  | RP-ACK  | See Note 2.  |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 7.1.3                            | [Command performed successfully]   |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 7.1.4                 |  |
| 25   | ME → UICC | FETCH   |  |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND<br>SHORT MESSAGE 7.1.4                            | [packing not required, 8-bit data]   |
| 27   | ME        | No information to user  | [Alpha identifier length '00']   |
| 28   | ME → NWS  | Send RP-DATA containing SMS-<br>PP (SEND SHORT MESSAGE)<br>Message 7.4    | See Note 1.  |
| 29   | NWS → ME  | RP-ACK  | See Note 2.  |
| 30   | ME → UICC | TERMINAL RESPONSE: SEND<br>SHORT MESSAGE 7.1.4                            | [Command performed successfully]   |
| 31   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SHORT<br>MESSAGE 7.1.5                 |  |
| 32   | ME → UICC | FETCH   |  |

|   |           |   |                                    |
|---|-----------|---|------------------------------------|
| 33  | UICC → ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.5                     | [packing not required, 8-bit data] |
| 34  | ME → USER | May give information to user concerning what is happening       | [No Alpha Identifier]              |
| 35  | ME → NWS  | Send RP-DATA containing SMS-PP (SEND SHORT MESSAGE) Message 7.5 | See Note 1.                        |
| 36  | NWS → ME  | RP-ACK  | See Note 2.                        |
| 37  | ME → UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 7.1.5                     | [Command performed successfully]   |
| 38  | USER → ME | The ME is switched off  |                                    |
| <p>Note 1:<br/>In case of IMS the RP-DATA is contained in the SIP MESSAGE which is built according to TS 24.341 [37], clause 5.3.1.2 including PSI of the SMSC from EF PSISMSC.</p> <p>Note 2:<br/>In case of IMS the RP-ACK message is contained in the message body of the SIP MESSAGE.</p> |           |   |                                    |

### PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.1

Logically:

#### Command details

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

#### Device identities

Source device: UICC  
 Destination device: Network

#### SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345678"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding SMS default alphabet  
 Message class class 0  
 TP-UDL 13  
 TP-UD "Short Message"

Coding:

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

### SMS-PP (SEND SHORT MESSAGE) Message 7.1

Logically:

#### SMS TPDU

TP-MTI SMS-SUBMIT

|                |  |
|----------------|--|
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                          |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT      |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested                 |
| TP-MR          | "01"   |
| TP-DA          |  |
| TON            | International number                             |
| NPI            | "ISDN / telephone numbering plan"                |
| Address value  | "012345678"                                      |
| TP-PID         | Short message type 0                             |
| TP-DCS         |  |
| Message coding | SMS default alphabet                             |
| Message class  | class 0  |
| TP-UDL         | 13   |
| TP-UD          | "Short Message"                                  |

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 01 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F0 | 0D |
|        | 53 | F4 | 5B | 4E | 07 | 35 | CB | F3 | F9 | F8 | 5C | 06 |

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

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.2

Logically:

Command details

Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing required

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "The address data object holds the RP\_Destination\_Address"

Address

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

SMS TPDU

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



|                |  |
|----------------|--|
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested   |
| TP-MR          | "00"   |
| TP-DA          |  |
| TON            | International number   |
| NPI            | "ISDN / telephone numbering plan"  |
| Address value  | "012345678"  |
| TP-PID         | Short message type 0   |
| TP-DCS         |  |
| Message coding | 8 bit data   |
| Message class  | class 0  |
| TP-UDL         | 160  |
| TP-UD          | "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp" |

Coding:

|          |    |    |    |    |    |    |    |    |                |    |    |                |
|----------|----|----|----|----|----|----|----|----|----------------|----|----|----------------|
| BER-TLV: | D0 | 81 | FD | 81 | 03 | 01 | 13 | 01 | 82             | 02 | 81 | 83             |
|          | 85 | 38 | 54 | 68 | 65 | 20 | 61 | 64 | 64             | 72 | 65 | 73             |
|          | 73 | 20 | 64 | 61 | 74 | 61 | 20 | 6F | 62             | 6A | 65 | 63             |
|          | 74 | 20 | 68 | 6F | 6C | 64 | 73 | 20 | 74             | 68 | 65 | 20             |
|          | 52 | 50 | 11 | 44 | 65 | 73 | 74 | 69 | 6E             | 61 | 74 | 69             |
|          | 6F | 6E | 11 | 41 | 64 | 64 | 72 | 65 | 73             | 73 | 86 | 09             |
|          | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F8             | 8B | 81 | AC             |
|          | 01 | 00 | 09 | 91 | 10 | 32 | 54 | 76 | F8             | 40 | F4 | A0             |
|          | 54 | 77 | 6F | 20 | 74 | 79 | 70 | 65 | 73             | 20 | 61 | 72             |
|          | 65 | 20 | 64 | 65 | 66 | 69 | 6E | 65 | 64             | 3A | 20 | 2D             |
|          | 20 | 41 | 20 | 73 | 68 | 6F | 72 | 74 | 20             | 6D | 65 | 73             |
|          | 73 | 61 | 67 | 65 | 20 | 74 | 6F | 20 | 62             | 65 | 20 | 73             |
|          | 65 | 6E | 74 | 20 | 74 | 6F | 20 | 74 | 68             | 65 | 20 | 6E             |
|          | 65 | 74 | 77 | 6F | 72 | 6B | 20 | 69 | 6E             | 20 | 61 | 6E             |
|          | 20 | 53 | 4D | 53 | 2D | 53 | 55 | 42 | 4D             | 49 | 54 | 20             |
|          | 6D | 65 | 73 | 73 | 61 | 67 | 65 | 2C | 20             | 6F | 72 | 20             |
|          | 61 | 6E | 20 | 53 | 4D | 53 | 2D | 43 | 4F             | 4D | 4D | <sup>4</sup> 1 |
|          | 4E | 44 | 20 | 6D | 65 | 73 | 73 | 61 | 67             | 65 | 2C | 20             |
|          | 77 | 68 | 65 | 72 | 65 | 20 | 74 | 68 | 65             | 20 | 75 | 73             |
|          | 65 | 72 | 20 | 64 | 61 | 74 | 61 | 20 | 6 <sup>3</sup> | 61 | 6E | 20             |
|          | 62 | 65 | 20 | 70 | 61 | 73 | 73 | 65 | 64             | 20 | 74 | 72             |
|          | 61 | 6E | 73 | 70 |    |    |    |    |                |    |    |                |

### SMS-PP (SEND SHORT MESSAGE) Message 7.2

Logically:

#### SMS TPDU

|                |  |
|----------------|--|
| TP-MTI         | SMS-SUBMIT                                       |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                          |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT      |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested                 |
| TP-MR          | "01"   |
| TP-DA          |  |
| TON            | International number                             |
| NPI            | "ISDN / telephone numbering plan"                |
| Address value  | "012345678"                                      |
| TP-PID         | Short message type 0                             |
| TP-DCS         |  |
| Message coding | SMS default alphabet                             |
| Message class  | class 0  |
| TP-UDL         | 160  |

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

Coding:

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

TERMINAL RESPONSE: SEND SHORT MESSAGE 7.1.2

Logically:

Command details

Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing required

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.3

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "The address data object holds the RP Destination Address"

Address

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

SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"

|                |  |
|----------------|--|
| TP-DA          |  |
| TON            | International number   |
| NPI            | "ISDN / telephone numbering plan"  |
| Address value  | "012345678"  |
| TP-PID         | Short message type 0   |
| TP-DCS         |  |
| Message coding | SMS default alphabet   |
| Message class  | class 0  |
| TP-UDL         | 160  |
| TP-UD          | "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp" |

Coding:

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

### SMS-PP (SEND SHORT MESSAGE) Message 7.3

Logically:

#### SMS TPDU

|                |  |
|----------------|--|
| TP-MTI         | SMS-SUBMIT   |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM   |
| TP-VPF         | TP-VP field not present  |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT  |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested   |
| TP-MR          | "01"   |
| TP-DA          |  |
| TON            | International number   |
| NPI            | "ISDN / telephone numbering plan"  |
| Address value  | "012345678"  |
| TP-PID         | Short message type 0   |
| TP-DCS         |  |
| Message coding | SMS default alphabet   |
| Message class  | class 0  |
| TP-UDL         | 160  |
| TP-UD          | "Two types are defined: - A short message to be sent to the network in an SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can be passed transp" |

Coding:

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.4

Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier:

## Address

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

## SMS TPDU

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

Coding:

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

## SMS-PP (SEND SHORT MESSAGE) Message 7.4

Logically:

SMS TPDU

|                |  |
|----------------|--|
| TP-MTI         | SMS-SUBMIT                                       |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                          |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT      |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested                 |
| TP-MR          | "01"   |
| TP-DA          |  |
| TON            | International number                             |
| NPI            | "ISDN / telephone numbering plan"                |
| Address value  | "012345678"                                      |
| TP-PID         | Short message type 0                             |
| TP-DCS         |  |
| Message coding | 8-bit data                                       |
| Message class  | class 0  |
| TP-UDL         | 12   |
| TP-UD          | "Test Message"                                   |

Coding:

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

## PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.5

Logically:

## Command details

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

## Device identities

|                     |         |
|---------------------|---------|
| Source device:      | UICC    |
| Destination device: | Network |

## Address

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

## SMS TPDU

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

Coding:

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

### SMS-PP (SEND SHORT MESSAGE) Message 7.5

Logically:

#### SMS TPDU

|                |  |
|----------------|--|
| TP-MTI         | SMS-SUBMIT                                       |
| TP-RD          | Instruct the SC to accept an SMS-SUBMIT for a SM |
| TP-VPF         | TP-VP field not present                          |
| TP-RP          | TP-Reply-Path is not set in this SMS-SUBMIT      |
| TP-UDHI        | The TP-UD field contains only the short message  |
| TP-SRR         | A status report is not requested                 |
| TP-MR          | "01"   |
| TP-DA          |  |
| TON            | International number                             |
| NPI            | "ISDN / telephone numbering plan"                |
| Address value  | "012345678"                                      |
| TP-PID         | Short message type 0                             |
| TP-DCS         |  |
| Message coding | 8-bit data                                       |
| Message class  | class 0  |
| TP-UDL         | 12   |
| TP-UD          | "Test Message"                                   |

Coding:

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

#### 27.22.4.10.7.5 Test requirement

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

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

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

##### 27.22.4.10.8.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.10.8.2 Conformance requirement

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

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.
- TS 24.301 [32] clause 5.6.3.1, 5.6.3.3 and 9.9.3.22

##### 27.22.4.10.8.3 Test purpose

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

27.22.4.10.8.4 Method of test

27.22.4.10.8.4.1 Initial conditions

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

27.22.4.10.8.4.2 Procedure

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

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

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

#### SMS over SGs related procedure:

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

27.22.4.10.8.5 Test requirement

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

### 27.22.4.11 SEND SS

27.22.4.11.1 SEND SS (normal)

27.22.4.11.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.1.2 Conformance requirement

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

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

27.22.4.11.1.3 Test purpose

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

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

#### 27.22.4.11.1.4 Method of test

##### 27.22.4.11.1.4.1 Initial conditions

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

##### 27.22.4.11.1.4.2 Procedure

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

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

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

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

PROACTIVE COMMAND: SEND SS 1.1.1

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Call Forward"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Coding:



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

## REGISTER 1.1A

Logically (only SS argument):

## REGISTER SS ARGUMENT

SS-Code:

- Call Forwarding Unconditional

TeleserviceCode

- All Tele Services

ForwardedToNumber

- nature of address ind.: international

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

- TBCD String: 01234567890123456789

- longFTN-Supported

Coding:

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

## REGISTER 1.1B

Logically (only SS argument):

## REGISTER SS ARGUMENT

SS-Code:

- Call Forwarding Unconditional

TeleserviceCode

- All Tele Services

ForwardedToNumber

- nature of address ind.: international

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

- TBCD String: 01234567890123456789

Coding:

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

## RELEASE COMPLETE (SS RETURN RESULT) 1.1A

Logically (only from operation code):

## REGISTER SS RETURN RESULT

ForwardingInfo

SS-Code

- Call Forwarding Unconditional

ForwardFeatureList

ForwardingFeature

TeleserviceCode

- All Tele Services

SS-Status

- state ind.: operative

- provision ind.: provisioned

- registration ind.: registered

- activation ind.: active

longForwardedToNumber

- nature of address ind.: international
- numbering plan ind.: ISDN/Telephony (E.164)
- TBCD String: 01234567890123456789

Coding:

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

RELEASE COMPLETE (SS RETURN RESULT) 1.1B

Logically (only from operation code):

REGISTER SS RETURN RESULT

ForwardingInfo

SS-Code

- Call Forwarding Unconditional

ForwardFeatureList

ForwardingFeature

TeleserviceCode

- All Tele Services

SS-Status

- state ind.: operative
- provision ind.: provisioned
- registration ind.: registered
- activation ind.: active

Coding:

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

TERMINAL RESPONSE: SEND SS 1.1.1A

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Additional information: Operation Code and SS Parameters

Coding:

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

TERMINAL RESPONSE: SEND SS 1.1.1B

Logically:

Command details

Command number: 1

Command type: SEND SS  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Additional information: Operation Code and SS Parameters

Coding:

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

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

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

RELEASE COMPLETE (SS RETURN ERROR) 1.1

Logically (only from error code):

Error Code: Facility not supported

Coding:

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

TERMINAL RESPONSE: SEND SS 1.2.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: SS Return Error  
 Additional information: Error Code

Coding:

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

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

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

**RELEASE COMPLETE (SS REJECT) 1.1**

Logically (only from problem code):

Problem Code:

- General problem
- Unrecognized component

Coding:

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

**TERMINAL RESPONSE: SEND SS 1.3.1**

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: SS Return Error  
 Additional information: No specific cause can be given

Coding:

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

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

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

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

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

PROACTIVE COMMAND: SEND SS 1.4.1

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Call Forward"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*0123456789012345678901234567\*11#"

Coding:

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

REGISTER 1.2A

Logically (only SS argument):

REGISTER SS ARGUMENT

RegisterSSArg  
 SS-Code  
 Call Forwarding Unconditional  
 TeleserviceCode  
 See Note 1  
 ForwardedToNumber  
 nature of address ind.: international  
 numbering plan ind.: ISDN/Telephony (E.164)  
 TBCD String: 0123456789012345678901234567  
 longFTN-Supported

Coding:

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

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

REGISTER 1.2B

Logically (only SS argument):

REGISTER SS ARGUMENT

RegisterSSArg  
 SS-Code  
   Call Forwarding Unconditional  
 TeleserviceCode  
   See Note 1  
 ForwardedToNumber  
   nature of address ind.: international  
   numbering plan ind.: ISDN/Telephony (E.164)  
   TBCD String: 0123456789012345678901234567

Coding:

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

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

Logically (only from operation code):

REGISTER SS RETURN RESULT

ForwardingInfo  
 SS-Code  
 - Call Forwarding Unconditional  
 ForwardFeatureList  
 ForwardingFeature  
 TeleserviceCode  
 - See Note 1  
 SS-Status  
 - state ind.: operative  
 - provision ind.: provisioned  
 - registration ind.: registered  
 - activation ind.: active  
 longForwardedToNumber  
 - nature of address ind.: international  
 - numbering plan ind.: ISDN/Telephony (E.164)  
 - TBCD String: 0123456789012345678901234567

Coding:

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

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

RELEASE COMPLETE (SS RETURN RESULT) 1.2B

Logically (only from operation code):

REGISTER SS RETURN RESULT

ForwardingInfo  
 SS-Code  
 - Call Forwarding Unconditional  
 ForwardFeatureList  
 ForwardingFeature  
 TeleserviceCode  
 - See Note 1  
 SS-Status

- state ind.: operative
- provision ind.: provisioned
- registration ind.: registered
- activation ind.: active

Coding:

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

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

TERMINAL RESPONSE: SEND SS 1.4.1A

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Additional information: Operation Code and SS Parameters

Coding:

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

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

TERMINAL RESPONSE: SEND SS 1.4.1B

Logically:

## Command details

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

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Additional information: Operation Code and SS Parameters

Coding:

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

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

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

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

PROACTIVE COMMAND: SEND SS 1.5.1

Logically:

Command details

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

Device identities

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

SS String

TON: Undefined  
 NPI: Undefined  
 SS string: "\*#31#"

Coding:

| BER-TLV: | D0 | 81             | FD             | 81 | 03             | 01 | 11 | 00 | 82             | 02             | 81 | 83 |
|----------|----|----------------|----------------|----|----------------|----|----|----|----------------|----------------|----|----|
|          | 85 | 81             | EB             | 45 | 76             | 65 | 6  | 20 | 69             | 66             | 20 | 74 |
|          | 68 | 65             | 20             | 46 | 69             | 78 | 65 | 64 | 20             | 44             | 69 | 61 |
|          | 6C | 6 <sup>C</sup> | 69             | 6E | 6 <sup>7</sup> | 20 | 4E | 75 | 6D             | 62             | 65 | 72 |
|          | 20 | 73             | 65             | 72 | 76             | 69 | 63 | 65 | 20             | 69             | 73 | 20 |
|          | 65 | 6E             | 61             | 62 | 6C             | 65 | 64 | 2C | 20             | 74             | 68 | 65 |
|          | 20 | 73             | 75             | 70 | 70             | 6C | 65 | 6D | 65             | 6E             | 74 | 61 |
|          | 72 | 79             | 20             | 73 | 65             | 72 | 76 | 69 | 63             | 65             | 20 | 63 |
|          | 6F | 6E             | 74             | 72 | 6F             | 6C | 20 | 73 | 74             | 7 <sup>2</sup> | 69 | 6E |
|          | 67 | 2 <sup>0</sup> | 69             | 6E | 63             | 6C | 75 | 64 | 65             | 64             | 20 | 69 |
|          | 6E | 20             | 74             | 68 | 65             | 20 | 53 | 45 | 4E             | 44             | 20 | 53 |
|          | 53 | 20             | 70             | 72 | 6F             | 61 | 63 | 74 | 69             | 76             | 65 | 20 |
|          | 63 | 6F             | 6D             | 6D | 61             | 6E | 64 | 20 | 73             | 68             | 61 | 6C |
|          | 6C | 20             | 6E             | 6F | 74             | 20 | 62 | 65 | 20             | 63             | 68 | 65 |
|          | 63 | 6B             | 65             | 64 | 20             | 61 | 67 | 61 | 69             | 6E             | 73 | 74 |
|          | 20 | 74             | 68             | 6F | 73             | 65 | 20 | 6F | 66             | 20             | 74 | 68 |
|          | 65 | 20             | 4 <sup>B</sup> | 44 | 4E             | 20 | 6C | 69 | 7 <sup>3</sup> | 74             | 2E | 20 |
|          | 55 | 70             | 6F             | 6E | 20             | 72 | 65 | 63 | 65             | 69             | 76 | 69 |
|          | 6E | 67             | 20             | 74 | 68             | 69 | 73 | 20 | 63             | 6F             | 6D | 6D |
|          | 61 | 6E             | 64             | 2C | 20             | 74 | 68 | 65 | 20             | 4D             | 45 | 20 |
|          | 73 | 68             | 61             | 6C | 6C             | 20 | 64 | 65 | 63             | 69             | 89 | 04 |
|          | FF | BA             | 13             | FB |                |    |    |    |                |                |    |    |

REGISTER 1.3

Logically (only SS argument):



INTERROGATE SS ARGUMENT

- SS-Code
- Calling Line Id Restriction

Coding:

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

RELEASE COMPLETE (SS RETURN RESULT) 1.3

Logically (only from operation code):

INTERROGATE SS RESULT

- CliRestrictionInfo
- SS-Status
  - state ind.: operative
  - provision ind.: provisioned
  - registration ind.: registered
  - activation ind.: not active
- CliRestrictionOption
  - Temporary Def Allowed

Coding:

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

TERMINAL RESPONSE: SEND SS 1.5.1

Logically:

Command details

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

Device identities

- Source device: ME
- Destination device: UICC

Result

- General Result: Command performed successfully

Additional information

- Operation Code: SS Code
- Parameters: SS Return Result

Coding:

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

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

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

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

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

PROACTIVE COMMAND: SEND SS 1.6.1

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: null data object

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

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

27.22.4.11.1.5 Test requirement

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

## 27.22.4.11.2 SEND SS (Icon support)

## 27.22.4.11.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.11.2.2 Conformance requirement

## 27.22.4.11.2.3 Test purpose

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

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

## 27.22.4.11.2.4 Method of test

## 27.22.4.11.2.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

## 27.22.4.11.2.4.2 Procedure

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

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

## PROACTIVE COMMAND: SEND SS 2.1.1

Logically:

## Command details

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

## Device identities

Source device: UICC

Destination device: Network  
 Alpha identifier: "Basic Icon"  
 SS String  
 TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*21\*01234567890123456789\*10#"  
 Icon Identifier:  
 Icon qualifier: icon is self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

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

TERMINAL RESPONSE: SEND SS 2.1.1AA

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Additional information: Operation Code and SS Parameters

Coding:

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

TERMINAL RESPONSE: SEND SS 2.1.1AB

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Additional information: Operation Code and SS Parameters

Coding:

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

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

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

TERMINAL RESPONSE: SEND SS 2.1.1BA

Logically:

Command details

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

Device identities

Source device: ME  
Destination device: UICC

Result

General Result: Command performed successfully, but requested icon could not be displayed  
Additional information: Operation Code and SS Parameters

Coding:

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

TERMINAL RESPONSE: SEND SS 2.1.1BB

Logically:

Command details

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

Device identities

Source device: ME  
Destination device: UICC

Result

General Result: Command performed successfully, but requested icon could not be displayed  
Additional information: Operation Code and SS Parameters

Coding:

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

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

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

**PROACTIVE COMMAND: SEND SS 2.2.1**

Logically:

Command details

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

Device identities

Source device: UICC  
Destination device: Network  
Alpha identifier: "Colour Icon"

SS String

TON: International  
NPI: "ISDN / telephone numbering plan"  
SS string: "\*\*\*21\*01234567890123456789\*10#"

Icon Identifier:

Icon qualifier: icon is self-explanatory  
Icon Identifier: record 2 in EF<sub>(IMG)</sub>

Coding:

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

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

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

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

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

PROACTIVE COMMAND: SEND SS 2.3.1

Logically:

Command details

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

Device identities

Source device: UICC  
Destination device: Network

Alpha Identifier

Text: "Basic Icon"

SS String

TON: International  
NPI: "ISDN / telephone numbering plan"  
SS string: "\*\*\*21\*01234567890123456789\*10#"

Icon Identifier

Icon qualifier: icon is non self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

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

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

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

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

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

PROACTIVE COMMAND: SEND SS 2.4.1

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789#"

Icon Identifier



Icon qualifier: icon is non self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

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

TERMINAL RESPONSE: SEND SS 2.4.1

Logically:

Command details

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

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command data not understood by ME

Coding:

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

#### 27.22.4.11.2.5 Test requirement

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

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

##### 27.22.4.11.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.11.3.2 Conformance requirement

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

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

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

##### 27.22.4.11.3.3 Test purpose

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

##### 27.22.4.11.3.4 Method of test

###### 27.22.4.11.3.4.1 Initial conditions

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

## 27.22.4.11.3.4.2 Procedure

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

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

## PROACTIVE COMMAND: SEND SS 3.1.1

Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha Identifier  
 Data coding scheme: UCS2 (16bit)  
 Text: "ЗДРАВСТВУЙТЕ"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Coding:

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

## 27.22.4.11.3.5 Test requirement

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

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

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

###### 27.22.4.11.4.1.1 Definition and applicability

See clause 3.2.2.

###### 27.22.4.11.4.1.2 Conformance requirement

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

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

###### 27.22.4.11.4.1.3 Test purpose

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

###### 27.22.4.11.4.1.4 Method of test

###### 27.22.4.11.4.1.4.1 Initial conditions

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

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

## 27.22.4.11.4.1.4.2 Procedure

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

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

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

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

PROACTIVE COMMAND: SEND SS 4.1.1

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"

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

Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

PROACTIVE COMMAND: SEND SS 4.1.2

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"

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

Coding:

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

REGISTER 4.1A

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

REGISTER 4.1B

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

RELEASE COMPLETE (SS RETURN RESULT) 4.1A

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

RELEASE COMPLETE (SS RETURN RESULT) 4.1B

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

TERMINAL RESPONSE: SEND SS 4.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

TERMINAL RESPONSE: SEND SS 4.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

27.22.4.11.4.1.5 Test requirement

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

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

27.22.4.11.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.2.2 Conformance requirement

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

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

27.22.4.11.4.2.3 Test purpose

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

27.22.4.11.4.2.4 Method of test

27.22.4.11.4.2.4.1 Initial conditions

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

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

## 27.22.4.11.4.2.4.2 Procedure

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

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

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

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

PROACTIVE COMMAND: SEND SS 4.2.1

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

PROACTIVE COMMAND: SEND SS 4.2.2

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Coding:

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

27.22.4.11.4.2.5 Test requirement

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



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

27.22.4.11.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.3.2 Conformance requirement

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

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

27.22.4.11.4.3.3 Test purpose

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

27.22.4.11.4.3.4 Method of test

27.22.4.11.4.3.4.1 Initial conditions

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

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

27.22.4.11.4.3.4.2 Procedure

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

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

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

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

**PROACTIVE COMMAND: SEND SS 4.3.1**

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

**PROACTIVE COMMAND: SEND SS 4.3.2**

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Coding:

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

27.22.4.11.4.3.5 Test requirement

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

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

27.22.4.11.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.4.2 Conformance requirement

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

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

27.22.4.11.4.4.3 Test purpose

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

27.22.4.11.4.4.4 Method of test

27.22.4.11.4.4.4.1 Initial conditions

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

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

## 27.22.4.11.4.4.2 Procedure

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

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

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

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

PROACTIVE COMMAND: SEND SS 4.4.1

Logically:

Command details

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

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

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

## PROACTIVE COMMAND: SEND SS 4.4.2

## Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

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

## PROACTIVE COMMAND: SEND SS 4.4.3

## Logically:

## Command details

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

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 3"

## SS String

TON: International

NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Coding:

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

#### 27.22.4.11.4.4.5 Test requirement

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

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

##### 27.22.4.11.4.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.11.4.5.2 Conformance requirement

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

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

##### 27.22.4.11.4.5.3 Test purpose

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.11.4.5.4 Method of test

###### 27.22.4.11.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.11.4.5.4.2 Procedure

**Expected Sequence 4.5A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Small Font Size)**

| Step | Direction | MESSAGE / Action                            | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.5.1 |  |
| 2    | ME → UICC | FETCH                                       |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.5.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with small font size]  |
| 5    | ME → USS  | REGISTER 4.1A                               |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                       |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.5.2 |  |
| 9    | ME → UICC | FETCH                                       |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.5.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                  | [Message shall be formatted with normal font size] |
| 12   | ME → USS  | REGISTER 4.1A                               |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                       |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.5.1 |  |
| 16   | ME → UICC | FETCH                                       |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.5.1         |  |
| 18   | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with small font size]  |
| 19   | ME → USS  | REGISTER 4.1A                               |  |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                       |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.5.3 |  |
| 23   | ME → UICC | FETCH                                       |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.5.3         |  |
| 25   | ME → USER | Display "Text Attribute 3"                  | [Message shall be formatted with normal font size] |
| 26   | ME → USS  | REGISTER 4.1A                               |  |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                       |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |



**Expected Sequence 4.5B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Small Font Size)**

| Step | Direction | MESSAGE / Action                            | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.5.1 |  |
| 2    | ME → UICC | FETCH                                       |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.5.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with small font size]  |
| 5    | ME → USS  | REGISTER 4.1B                               |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                       |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.5.2 |  |
| 9    | ME → UICC | FETCH                                       |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.5.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                  | [Message shall be formatted with normal font size] |
| 12   | ME → USS  | REGISTER 4.1B                               |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                       |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.5.1 |  |
| 16   | ME → UICC | FETCH                                       |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.5.1         |  |
| 18   | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with small font size]  |
| 19   | ME → USS  | REGISTER 4.1B                               |  |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                       |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.5.3 |  |
| 23   | ME → UICC | FETCH                                       |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.5.3         |  |
| 25   | ME → USER | Display "Text Attribute 3"                  | [Message shall be formatted with normal font size] |
| 26   | ME → USS  | REGISTER 4.1B                               |  |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                       |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |

PROACTIVE COMMAND: SEND SS 4.5.1

Logically:

Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 08 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.5.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 00 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.5.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 3"

## SS String

TON: International

NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |    |

#### 27.22.4.11.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

#### 27.22.4.11.4.6 SEND SS (support of Text Attribute – Bold On)

##### 27.22.4.11.4.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.11.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

##### 27.22.4.11.4.6.3 Test purpose

To verify that the ME displays the alpha identifier according to the bold text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.11.4.6.4 Method of test

###### 27.22.4.11.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.11.4.6.4.2 Procedure

**Expected Sequence 4.6A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Bold On)**

| Step | Direction | MESSAGE / Action                            | Comments                                   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.6.1 |  |
| 2    | ME → UICC | FETCH                                       |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.6.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with bold on]  |
| 5    | ME → USS  | REGISTER 4.1A                               |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                               |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.6.2 |  |
| 9    | ME → UICC | FETCH                                       |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.6.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                  | [Message shall be formatted with bold off] |
| 12   | ME → USS  | REGISTER 4.1A                               |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                               |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.6.1 |  |
| 16   | ME → UICC | FETCH                                       |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.6.1         |  |
| 18   | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with bold on]  |
| 19   | ME → USS  | REGISTER 4.1A                               |  |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                               |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.6.3 |  |
| 23   | ME → UICC | FETCH                                       |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.6.3         |  |
| 25   | ME → USER | Display "Text Attribute 3"                  | [Message shall be formatted with bold off] |
| 26   | ME → USS  | REGISTER 4.1A                               |  |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                               |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |

**Expected Sequence 4.6B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Bold On)**

| Step | Direction | MESSAGE / Action                            | Comments                                   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.6.1 |  |
| 2    | ME → UICC | FETCH                                       |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.6.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with bold on]  |
| 5    | ME → USS  | REGISTER 4.1B                               |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                               |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.6.2 |  |
| 9    | ME → UICC | FETCH                                       |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.6.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                  | [Message shall be formatted with bold off] |
| 12   | ME → USS  | REGISTER 4.1B                               |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                               |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.6.1 |  |
| 16   | ME → UICC | FETCH                                       |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.6.1         |  |
| 18   | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with bold on]  |
| 19   | ME → USS  | REGISTER 4.1B                               |  |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                               |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.6.3 |  |
| 23   | ME → UICC | FETCH                                       |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.6.3         |  |
| 25   | ME → USER | Display "Text Attribute 3"                  | [Message shall be formatted with bold off] |
| 26   | ME → USS  | REGISTER 4.1B                               |  |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                               |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |

PROACTIVE COMMAND: SEND SS 4.6.1

Logically:

Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 10 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.6.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 00 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.6.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 3"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |    |

#### 27.22.4.11.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

#### 27.22.4.11.4.7 SEND SS (support of Text Attribute – Italic On)

##### 27.22.4.11.4.7.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.11.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

##### 27.22.4.11.4.7.3 Test purpose

To verify that the ME displays the alpha identifier according to the italic text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.11.4.7.4 Method of test

###### 27.22.4.11.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.11.4.7.4.2 Procedure

**Expected Sequence 4.7A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Italic On)**

| Step | Direction | MESSAGE / Action                            | Comments                                     |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.7.1 |  |
| 2    | ME → UICC | FETCH                                       |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.7.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with italic on]  |
| 5    | ME → USS  | REGISTER 4.1A                               |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                 |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.7.2 |  |
| 9    | ME → UICC | FETCH                                       |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.7.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                  | [Message shall be formatted with italic off] |
| 12   | ME → USS  | REGISTER 4.1A                               |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                 |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.7.1 |  |
| 16   | ME → UICC | FETCH                                       |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.7.1         |  |
| 18   | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with italic on]  |
| 19   | ME → USS  | REGISTER 4.1A                               |  |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                 |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.7.3 |  |
| 23   | ME → UICC | FETCH                                       |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.7.3         |  |
| 25   | ME → USER | Display "Text Attribute 3"                  | [Message shall be formatted with italic off] |
| 26   | ME → USS  | REGISTER 4.1A                               |  |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                 |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |



**Expected Sequence 4.7B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Italic On)**

| Step | Direction | MESSAGE / Action                            | Comments                                     |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.7.1 |  |
| 2    | ME → UICC | FETCH                                       |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.7.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with italic on]  |
| 5    | ME → USS  | REGISTER 4.1B                               |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                 |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.7.2 |  |
| 9    | ME → UICC | FETCH                                       |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.7.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                  | [Message shall be formatted with italic off] |
| 12   | ME → USS  | REGISTER 4.1B                               |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                 |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.7.1 |  |
| 16   | ME → UICC | FETCH                                       |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.7.1         |  |
| 18   | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with italic on]  |
| 19   | ME → USS  | REGISTER 4.1B                               |  |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                 |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.7.3 |  |
| 23   | ME → UICC | FETCH                                       |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.7.3         |  |
| 25   | ME → USER | Display "Text Attribute 3"                  | [Message shall be formatted with italic off] |
| 26   | ME → USS  | REGISTER 4.1B                               |  |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                 |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |

PROACTIVE COMMAND: SEND SS 4.7.1

Logically:

Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 20 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.7.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 00 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.7.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 3"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |    |

#### 27.22.4.11.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

#### 27.22.4.11.4.8 SEND SS (support of Text Attribute – Underline On)

##### 27.22.4.11.4.8.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.11.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

##### 27.22.4.11.4.8.3 Test purpose

To verify that the ME displays the alpha identifier according to the underline text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.11.4.8.4 Method of test

###### 27.22.4.11.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.11.4.8.4.2 Procedure

**Expected Sequence 4.8A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Underline On)**

| Step | Direction | MESSAGE / Action                            | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.8.1 |   |
| 2    | ME → UICC | FETCH                                       |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.8.1         |   |
| 4    | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with underline on]  |
| 5    | ME → USS  | REGISTER 4.1A                               |   |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                    |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.8.2 |   |
| 9    | ME → UICC | FETCH                                       |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.8.2         |   |
| 11   | ME → USER | Display "Text Attribute 2"                  | [Message shall be formatted with underline off] |
| 12   | ME → USS  | REGISTER 4.1A                               |   |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                    |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |   |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.8.1 |   |
| 16   | ME → UICC | FETCH                                       |   |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.8.1         |   |
| 18   | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with underline on]  |
| 19   | ME → USS  | REGISTER 4.1A                               |   |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                    |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |   |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.8.3 |   |
| 23   | ME → UICC | FETCH                                       |   |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.8.3         |   |
| 25   | ME → USER | Display "Text Attribute 3"                  | [Message shall be formatted with underline off] |
| 26   | ME → USS  | REGISTER 4.1A                               |   |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]                                    |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |   |

**Expected Sequence 4.8B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Underline On)**

| Step | Direction | MESSAGE / Action                            | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.8.1 |   |
| 2    | ME → UICC | FETCH                                       |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.8.1         |   |
| 4    | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with underline on]  |
| 5    | ME → USS  | REGISTER 4.1B                               |   |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                    |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.8.2 |   |
| 9    | ME → UICC | FETCH                                       |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.8.2         |   |
| 11   | ME → USER | Display "Text Attribute 2"                  | [Message shall be formatted with underline off] |
| 12   | ME → USS  | REGISTER 4.1B                               |   |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                    |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |   |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.8.1 |   |
| 16   | ME → UICC | FETCH                                       |   |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.8.1         |   |
| 18   | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with underline on]  |
| 19   | ME → USS  | REGISTER 4.1B                               |   |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                    |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |   |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.8.3 |   |
| 23   | ME → UICC | FETCH                                       |   |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.8.3         |   |
| 25   | ME → USER | Display "Text Attribute 3"                  | [Message shall be formatted with underline off] |
| 26   | ME → USS  | REGISTER 4.1B                               |   |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]                                    |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |   |

PROACTIVE COMMAND: SEND SS 4.8.1

Logically:

Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 40 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.8.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 00 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.8.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 3"

## SS String

TON: International

NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |    |

#### 27.22.4.11.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

#### 27.22.4.11.4.9 SEND SS (support of Text Attribute – Strikethrough On)

##### 27.22.4.11.4.9.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.11.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

##### 27.22.4.11.4.9.3 Test purpose

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.11.4.9.4 Method of test

###### 27.22.4.11.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.11.4.9.4.2 Procedure

**Expected Sequence 4.9A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Strikethrough On)**

| Step | Direction | MESSAGE / Action                            | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.9.1 |  |
| 2    | ME → UICC | FETCH                                       |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.9.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with<br>strikethrough on]  |
| 5    | ME → USS  | REGISTER 4.1A                               |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.9.2 |  |
| 9    | ME → UICC | FETCH                                       |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.9.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                  | [Message shall be formatted with<br>strikethrough off] |
| 12   | ME → USS  | REGISTER 4.1A                               |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.9.1 |  |
| 16   | ME → UICC | FETCH                                       |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.9.1         |  |
| 18   | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with<br>strikethrough on]  |
| 19   | ME → USS  | REGISTER 4.1A                               |  |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]   |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.9.3 |  |
| 23   | ME → UICC | FETCH                                       |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.9.3         |  |
| 25   | ME → USER | Display "Text Attribute 3"                  | [Message shall be formatted with<br>strikethrough off] |
| 26   | ME → USS  | REGISTER 4.1A                               |  |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A | [Successful]   |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A        |  |



**Expected Sequence 4.9B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Strikethrough On)**

| Step | Direction | MESSAGE / Action                            | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.9.1 |  |
| 2    | ME → UICC | FETCH                                       |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.9.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with<br>strikethrough on]  |
| 5    | ME → USS  | REGISTER 4.1B                               |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.9.2 |  |
| 9    | ME → UICC | FETCH                                       |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.9.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                  | [Message shall be formatted with<br>strikethrough off] |
| 12   | ME → USS  | REGISTER 4.1B                               |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.9.1 |  |
| 16   | ME → UICC | FETCH                                       |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.9.1         |  |
| 18   | ME → USER | Display "Text Attribute 1"                  | [Message shall be formatted with<br>strikethrough on]  |
| 19   | ME → USS  | REGISTER 4.1B                               |  |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]   |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.9.3 |  |
| 23   | ME → UICC | FETCH                                       |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.9.3         |  |
| 25   | ME → USER | Display "Text Attribute 3"                  | [Message shall be formatted with<br>strikethrough off] |
| 26   | ME → USS  | REGISTER 4.1B                               |  |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B | [Successful]   |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B        |  |

PROACTIVE COMMAND: SEND SS 4.9.1

Logically:

Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 80 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.9.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 00 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.9.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 3"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |    |

#### 27.22.4.11.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

#### 27.22.4.11.4.10 SEND SS (support of Text Attribute – Foreground and Background Colour)

##### 27.22.4.11.4.10.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.11.4.10.2 Conformance requirement

The ME shall support the Proactive UICC: Send SS facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1 , clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5.

##### 27.22.4.11.4.10.3 Test purpose

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.11.4.10.4 Method of test

###### 27.22.4.11.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.11.4.10.4.2 Procedure

**Expected Sequence 4.10A (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Foreground and Background Colour)**

| Step | Direction | MESSAGE / Action                             | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.10.1 |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.10.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                   | [Message shall be formatted with foreground and background colour according to text attribute configuration] |
| 5    | ME → USS  | REGISTER 4.1A                                |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A  | [Successful]   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A         |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.10.2 |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.10.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                   | [Message shall be formatted with ME"s default foreground and background colour]                              |
| 12   | ME → USS  | REGISTER 4.1A                                |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1A  | [Successful]   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1A         |  |

**Expected Sequence 4.10B (SEND SS, call forward unconditional, all bearers, successful, alpha identifier with Text attribute – Foreground and Background Colour)**

| Step | Direction | MESSAGE / Action                             | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.10.1 |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.10.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                   | [Message shall be formatted with foreground and background colour according to text attribute configuration] |
| 5    | ME → USS  | REGISTER 4.1B                                |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B  | [Successful]   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B         |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 4.10.2 |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 4.10.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                   | [Message shall be formatted with ME"s default foreground and background colour]                              |
| 12   | ME → USS  | REGISTER 4.1B                                |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1B  | [Successful]   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 4.1.1B         |  |

PROACTIVE COMMAND: SEND SS 4.10.1

Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 33 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB | D0 |
|          | 04 | 00 | 10 | 00 | B4 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND SS 4.10.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 89 | 10 | 91 | AA | 12 | 0A | 21 |
|          | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |    |

## 27.22.4.11.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

## 27.22.4.11.5 SEND SS (UCS2 display in Chinese)

## 27.22.4.11.5.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.11.5.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionally, the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in: ISO/IEC 10646 [17].

## 27.22.4.11.5.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

## 27.22.4.11.5.4 Method of test

## 27.22.4.11.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.11.5.4.2 Procedure

#### Expected Sequence 5.1A (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Chinese)

| Step | Direction | MESSAGE / Action                            | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 5.1.1 |                                  |
| 2    | ME → UICC | FETCH                                       |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 5.1.1         |                                  |
| 4    | ME → USER | Display "你好"                                | ["Hello" in Chinese]             |
| 5    | ME → USS  | REGISTER 5.1A                               |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 5.1A | [Successful]                     |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 5.1.1A        | [Command performed successfully] |

#### Expected Sequence 5.1B (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Chinese)

| Step | Direction | MESSAGE / Action                            | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 5.1.1 |                                  |
| 2    | ME → UICC | FETCH                                       |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 5.1.1         |                                  |
| 4    | ME → USER | Display "你好"                                | ["Hello" in Chinese]             |
| 5    | ME → USS  | REGISTER 5.1B                               |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 5.1B | [Successful]                     |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 5.1.1B        | [Command performed successfully] |

PROACTIVE COMMAND: SEND SS 5.1.1

Logically:

## Command details

Command number: 1  
 Command type: SEND SS  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha Identifier  
 Data coding scheme: UCS2 (16bit)  
 Text: "你好"

## SS String

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 05 | 80 | 4F | 60 | 59 | 7D | 89 | 10 | 91 | AA | 12 | 0A |
|          | 21 | 43 | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |

## REGISTER 5.1A

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

## REGISTER 5.1B

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

## RELEASE COMPLETE (SS RETURN RESULT) 5.1A

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1A

## RELEASE COMPLETE (SS RETURN RESULT) 5.1B

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1B

## TERMINAL RESPONSE: SEND SS 5.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

## TERMINAL RESPONSE: SEND SS 5.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

## 27.22.4.11.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

## 27.22.4.11.6 SEND SS (UCS2 display in Katakana)

## 27.22.4.11.6.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.11.6.2 Conformance requirement

The ME shall support the Proactive UICC: SEND SHORT MESSAGE facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.11, clause 6.6.10, clause 8.12.1, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.14, clause 8.31 and clause 6.5

Additionally, the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in: ISO/IEC 10646 [17].

### 27.22.4.11.6.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND SS proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

### 27.22.4.11.6.4 Method of test

#### 27.22.4.11.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

#### 27.22.4.11.6.4.2 Procedure

### Expected Sequence 6.1A (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Katakana)

| Step | Direction | MESSAGE / Action                            | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 6.1.1 |                                  |
| 2    | ME → UICC | FETCH                                       |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 6.1.1         |                                  |
| 4    | ME → USER | Display "ル"                                 | [Character in Katakana]          |
| 5    | ME → USS  | REGISTER 6.1A                               |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 6.1A | [Successful]                     |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 6.1.1A        | [Command performed successfully] |

### Expected Sequence 6.1B (SEND SS, call forward unconditional, all bearers, successful, UCS2 text in Katakana)

| Step | Direction | MESSAGE / Action                            | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND SS 6.1.1 |                                  |
| 2    | ME → UICC | FETCH                                       |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>SS 6.1.1         |                                  |
| 4    | ME → USER | Display "ル"                                 | [Character in Katakana]          |
| 5    | ME → USS  | REGISTER 6.1B                               |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 6.1B | [Successful]                     |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>SS 6.1.1B        | [Command performed successfully] |

PROACTIVE COMMAND: SEND SS 6.1.1

Logically:

#### Command details

Command number: 1  
Command type: SEND SS  
Command qualifier: "00"

#### Device identities

Source device: UICC  
Destination device: Network



Alpha Identifier  
 Data coding scheme: UCS2 (16bit)  
 Text: " /L"  
 SS String  
 TON: International  
 NPI: "ISDN / telephone numbering plan"  
 SS string: "\*\*\*21\*01234567890123456789\*10#"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 11 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 03 | 80 | 30 | EB | 89 | 10 | 91 | AA | 12 | 0A | 21 | 43 |
|          | 65 | 87 | 09 | 21 | 43 | 65 | 87 | A9 | 01 | FB |    |    |

#### REGISTER 6.1A

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

#### REGISTER 6.1B

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

#### RELEASE COMPLETE (SS RETURN RESULT) 6.1A

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1A

#### RELEASE COMPLETE (SS RETURN RESULT) 6.1B

Same as cl 27.22.4.11.1.4.2 RELEASE COMPLETE (SS RETURN RESULT) 1.1B

#### TERMINAL RESPONSE: SEND SS 6.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

#### TERMINAL RESPONSE: SEND SS 6.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

#### 27.22.4.11.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

### 27.22.4.12 SEND USSD

#### 27.22.4.12.1 SEND USSD (normal)

##### 27.22.4.12.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.12.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.
- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in: ISO/IEC 10646 [17].

27.22.4.12.1.3 Test purpose

To verify that the ME correctly translates and sends the unstructured supplementary service request indicated in the SEND USSD proactive UICC command to the USS.

To verify that the ME returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the USSD request and including a USSD result as a text string in the TERMINAL RESPONSE.

27.22.4.12.1.4 Method of test

27.22.4.12.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.12.1.4.2 Procedure

**Expected Sequence 1.1 (SEND USSD, 7-bit data, successful)**

| Step | Direction | MESSAGE / Action                              | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 1.1.1 |                                  |
| 2    | ME → UICC | FETCH   |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 1.1.1         |                                  |
| 4    | ME → USER | Display "7-bit USSD"                          |                                  |
| 5    | ME → USS  | REGISTER 1.1                                  |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 1.1    | ["USSD string received from SS"] |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 1.1.1         |                                  |

PROACTIVE COMMAND: SEND USSD 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "7-bit USSD"

USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

Coding:

|          |    |    |    |    |    |                |    |    |    |    |    |    |
|----------|----|----|----|----|----|----------------|----|----|----|----|----|----|
| BER-TLV: | D0 | 50 | 81 | 03 | 01 | 12             | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0A | 37 | 2D | 62 | 69 | 74             | 20 | 55 | 53 | 53 | 44 | 8A |
|          | 39 | F0 | 41 | E1 | 90 | 5 <sup>8</sup> | 34 | 1E | 91 | 49 | E5 | 92 |
|          | D9 | 74 | 3E | A1 | 51 | E9             | 94 | 5A | B5 | 5E | B1 | 59 |
|          | 6D | 2B | 2C | 1E | 93 | CB             | E6 | 33 | 3A | AD | 5E | B3 |
|          | DB | EE | 37 | 3C | 2E | 9F             | D3 | EB | F6 | 3B | 3E | AF |
|          | 6F | C5 | 64 | 33 | 5A | CD             | 76 | C3 | E5 | 60 |    |    |

REGISTER 1.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |                |
|---------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV | 30 | 3D | 04 | 01 | F0 | 04 | 38 | 41 | E1 | 90 | 58 | <sup>3</sup> 4 |
|         | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94             |
|         | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6             |
|         | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3             |
|         | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76             |
|         | C3 | E5 | 60 |    |    |    |    |    |    |    |    |                |

RELEASE COMPLETE (SS RETURN RESULT) 1.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "USSD string received from SS"

Coding:

|                      |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV <sup>V</sup> | 30 | 1E | 04 | 01 | F0 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|                      | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|                      | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

TERMINAL RESPONSE: SEND USSD 1.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

**Expected Sequence 1.2 (SEND USSD, 8-bit data, successful)**

| Step | Direction | MESSAGE / Action                              | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 1.2.1 |                                  |
| 2    | ME → UICC | FETCH   |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 1.2.1         |                                  |
| 4    | ME → USER | Display "8-bit USSD"                          |                                  |
| 5    | ME → USS  | REGISTER 1.2                                  |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 1.2    | ["USSD string received from SS"] |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 1.2.1         |                                  |

PROACTIVE COMMAND: SEND USSD 1.2.1

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "8-bit USSD"

USSD String

Data coding scheme: Uncompressed, no message class meaning, 8-bit data  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 58 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0A | 38 | 2D | 62 | 69 | 74 | 20 | 55 | 53 | 53 | 44 | 8A |
|          | 41 | 44 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 4A |
|          | 4B | 4C | 4D | 4E | 4F | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
|          | 57 | 58 | 59 | 5A | 2D | 61 | 62 | 63 | 64 | 65 | 66 | 67 |
|          | 68 | 69 | 6A | 6B | 6C | 6D | 6E | 6F | 70 | 71 | 72 | 73 |
|          | 74 | 75 | 76 | 77 | 78 | 79 | 7A | 2D | 31 | 32 | 33 | 34 |
|          | 35 | 36 | 37 | 38 | 39 | 30 |    |    |    |    |    |    |

REGISTER 1.2

Logically (only USSD argument):

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:  
 - Uncompressed, no message class meaning, 8-bit data  
 USSD string:  
 - "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 30 | 45 | 04 | 01 | 44 | 04 | 40 | 41 | 42 | 43 | 44 | 45 |
|         | 46 | 47 | 48 | 49 | 4A | 4B | 4C | 4D | 4E | 4F | 50 | 51 |
|         | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 5A | 2D | 61 | 62 |
|         | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 6A | 6B | 6C | 6D | 6E |
|         | 6F | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 7A |
|         | 2D | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 30 |    |

## RELEASE COMPLETE (SS RETURN RESULT) 1.2

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- Uncompressed, no message class meaning, 8-bit data

USSD string:

- "USSD string received from SS"

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 30 | 21 | 04 | 01 | 44 | 04 | 1C | 55 | 53 | 53 | 44 | 20 |
|         | 73 | 74 | 72 | 69 | 6E | 67 | 20 | 72 | 65 | 63 | 65 | 69 |
|         | 76 | 65 | 64 | 20 | 66 | 72 | 6F | 6D | 20 | 53 | 53 |    |

## TERMINAL RESPONSE: SEND USSD 1.2.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: Uncompressed, no message class meaning, 8-bit data

String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1D | 04 | 55 | 53 | 53 | 44 | 20 | 73 | 74 |
|          | 72 | 69 | 6E | 67 | 20 | 72 | 65 | 63 | 65 | 69 | 76 |
|          | 65 | 64 | 20 | 66 | 72 | 6F | 6D | 20 | 53 | 53 |    |

## Expected Sequence 1.3 (SEND USSD, UCS2 data, successful)

| Step | Direction | MESSAGE / Action                           | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.3.1 |                                  |
| 2    | ME → UICC | FETCH                                      |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.3.1         |                                  |
| 4    | ME → USER | Display "UCS2 USSD"                        |                                  |
| 5    | ME → USS  | REGISTER 1.3                               |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 1.3    | ["USSD string received from SS"] |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.3.1         |                                  |

## PROACTIVE COMMAND: SEND USSD 1.3.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "UCS2 USSD"

## USSD String

Data coding scheme: Uncompressed, no message class meaning, UCS2 (16 bit)  
 USSD string: "ЗДРАВСТВУЙТЕ" ("Hello" in Russian)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2F | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 09 | 55 | 43 | 53 | 32 | 20 | 55 | 53 | 53 | 44 | 8A | 19 |
|          | 48 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 | 04 |
|          | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 | 04 |
|          | 15 |    |    |    |    |    |    |    |    |    |    |    |

## REGISTER 1.3

## Logically (only USSD argument):

## ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:  
 - Uncompressed, no message class meaning, UCS2 (16 bit)  
 USSD string:  
 - "ЗДРАВСТВУЙТЕ" ("Hello" in Russian)

## Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 30 | 1D | 04 | 01 | 48 | 04 | 18 | 04 | 17 | 04 | 14 | 04 |
|         | 20 | 04 | 10 | 04 | 12 | 04 | 21 | 04 | 22 | 04 | 12 | 04 |
|         | 23 | 04 | 19 | 04 | 22 | 04 | 15 |    |    |    |    |    |

## RELEASE COMPLETE (SS RETURN RESULT) 1.3

## Logically (only from USSD result):

## ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:  
 - Uncompressed, no message class meaning, UCS2 (16 bit)  
 USSD string:  
 - "USSD string received from SS"

## Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 30 | 3D | 04 | 01 | 48 | 04 | 38 | 00 | 55 | 00 | 53 | 00 |
|         | 53 | 00 | 44 | 00 | 20 | 00 | 73 | 00 | 74 | 00 | 72 | 00 |
|         | 69 | 00 | 6E | 00 | 67 | 00 | 20 | 00 | 72 | 00 | 65 | 00 |
|         | 63 | 00 | 65 | 00 | 69 | 00 | 76 | 00 | 65 | 00 | 64 | 00 |
|         | 20 | 00 | 66 | 00 | 72 | 00 | 6F | 00 | 6D | 00 | 20 | 00 |
|         | 53 | 00 | 53 |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SEND USSD 1.3.1

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: ME

Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Text String  
 Data coding scheme: Uncompressed, no message class meaning, UCS2 (16 bit)  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 39 | 08 | 00 | 55 | 00 | 53 | 00 | 53 | 00 |
|          | 44 | 00 | 20 | 00 | 73 | 00 | 74 | 00 | 72 | 00 | 69 |
|          | 00 | 6E | 00 | 67 | 00 | 20 | 00 | 72 | 00 | 65 | 00 |
|          | 63 | 00 | 65 | 00 | 69 | 00 | 76 | 00 | 65 | 00 | 64 |
|          | 00 | 20 | 00 | 66 | 00 | 72 | 00 | 6F | 00 | 6D | 00 |
|          | 20 | 00 | 53 | 00 | 53 |    |    |    |    |    |    |

**Expected Sequence 1.4 (SEND USSD, 7-bit data, unsuccessful (Return Error))**

| Step | Direction | MESSAGE / Action                           | Comments     |
|------|-----------|--|--------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.1.1 |              |
| 2    | ME → UICC | FETCH                                      |              |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.1.1         |              |
| 4    | ME → USER | Display "7-bit USSD"                       |              |
| 5    | ME → USS  | REGISTER 1.1                               |              |
| 6    | USS → ME  | RELEASE COMPLETE (SS RETURN ERROR) 1.1     | Return Error |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.4.1         |              |

RELEASE COMPLETE (SS RETURN ERROR) 1.1

Logically (only from Return Error code):

ProcessUnstructuredSS-Request RETURN ERROR  
 Return Error code:  
 - Unknown alphabet

Coding:

|        |    |    |    |
|--------|----|----|----|
| Coding | 02 | 01 | 47 |
|--------|----|----|----|

TERMINAL RESPONSE: SEND USSD 1.4.1

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: USSD Return Error  
 Additional information: "Unknown alphabet"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 02 |
|          | 37 | 47 |    |    |    |    |    |    |    |    |    |

**Expected Sequence 1.5 (SEND USSD, 7-bit data, unsuccessful (Reject))**

| Step | Direction | MESSAGE / Action                           | Comments |
|------|-----------|--|----------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.1.1 |          |
| 2    | ME → UICC | FETCH                                      |          |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.1.1         |          |
| 4    | ME → USER | Display "7-bit USSD"                       |          |
| 5    | ME → USS  | REGISTER 1.1                               |          |
| 6    | USS → ME  | RELEASE COMPLETE (SS REJECT) 1.1           | Reject   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.5.1         |          |

RELEASE COMPLETE (SS REJECT) 1.1

Logically (only from Problem code):

ProcessUnstructuredSS-Request REJECT  
 Invoke Problem code:  
 - Mistyped parameter

Coding:

|        |    |    |    |
|--------|----|----|----|
| Coding | 81 | 01 | 02 |
|--------|----|----|----|

TERMINAL RESPONSE: SEND USSD 1.5.1

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: USSD Return Error  
 Additional information: "No specific cause can be given"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 02 |
|          | 37 | 00 |    |    |    |    |    |    |    |    |    |

**Expected Sequence 1.6 (SEND USSD, 256 octets, 7-bit data, successful, long alpha identifier)**

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.6.1   |                                  |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.6.1   |                                  |
| 4    | ME → USER | Display "once a RELEASE COMPLETE message containing the USSD Return Result message not containing an error has been received from the network, the ME shall inform the SIM that the command has" |                                  |
| 5    | ME → USS  | REGISTER 1.1   |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 1.1  | ["USSD string received from SS"] |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.1.1   |                                  |

PROACTIVE COMMAND: SEND USSD 1.6.1



Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "once a RELEASE COMPLETE message containing the USSD Return Result message not containing an error has been received from the network, the ME shall inform the SIM that the command has"

USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|          |    |    |    |                |    |                |    |    |    |    |    |    |
|----------|----|----|----|----------------|----|----------------|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | FD | 81             | 03 | 01             | 12 | 00 | 82 | 02 | 81 | 83 |
|          | 85 | 81 | B6 | 6F             | 6E | 63             | 65 | 20 | 61 | 20 | 52 | 45 |
|          | 4C | 45 | 41 | 53             | 45 | 20             | 43 | 4F | 4D | 50 | 4C | 45 |
|          | 54 | 45 | 20 | 6D             | 65 | 73             | 73 | 61 | 67 | 65 | 20 | 63 |
|          | 6F | 6E | 74 | 6 <sup>1</sup> | 69 | 6 <sup>E</sup> | 69 | 6E | 67 | 20 | 74 | 68 |
|          | 65 | 20 | 55 | 53             | 53 | 44             | 20 | 52 | 65 | 74 | 75 | '2 |
|          | 6E | 20 | 52 | 65             | 73 | 75             | 6C | 74 | 20 | 6D | 65 | 73 |
|          | 73 | 61 | 67 | 65             | 20 | 6E             | 6F | 74 | 20 | 63 | 6F | 6E |
|          | 74 | 61 | 69 | 6E             | 69 | 6E             | 67 | 20 | 61 | 6E | 20 | 65 |
|          | 72 | 72 | 6F | 72             | 20 | 68             | 61 | 73 | 20 | 62 | 65 | 65 |
|          | 6E | 20 | 72 | 65             | 63 | 65             | 69 | 76 | 65 | 64 | 20 | 66 |
|          | 72 | 6F | 6D | 20             | 74 | 68             | 65 | 20 | 6E | 65 | 74 | 77 |
|          | 6F | 72 | 6B | 2C             | 20 | 74             | 68 | 65 | 20 | 4D | 45 | 20 |
|          | 73 | 68 | 61 | 6C             | 6C | 20             | 69 | 6E | 66 | 6F | 72 | 6D |
|          | 20 | 74 | 68 | 65             | 20 | 53             | 49 | 4D | 20 | 74 | 68 | 61 |
|          | 74 | 20 | 74 | 68             | 65 | 20             | 63 | 6F | 6D | 6D | 61 | 6E |
|          | 64 | 20 | 68 | 61             | 73 | 8A             | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49             | E5 | 92             | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E             | B1 | 59             | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD             | 5E | B3             | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B             | 3E | AF             | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60             |    |                |    |    |    |    |    |    |

**Expected Sequence 1.7 (SEND USSD, 7-bit data, successful, no alpha identifier)**

| Step | Direction | MESSAGE / Action                           | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.7.1 |                                  |
| 2    | ME → UICC | FETCH                                      |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.7.1         |                                  |
| 4    | ME → USER | Optionally display an informative message  |                                  |
| 5    | ME → USS  | REGISTER 1.1                               |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 1.1    | ["USSD string received from SS"] |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.1.1         |                                  |

PROACTIVE COMMAND: SEND USSD 1.7.1

Logically:

Command details

Command number: 1  
 Command type: SEND USSD

Command qualifier: "00"  
 Device identities  
 Source device: UICC  
 Destination device: Network  
 USSD String  
 Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|          |    |    |    |    |    |                |    |    |    |    |    |    |
|----------|----|----|----|----|----|----------------|----|----|----|----|----|----|
| BER-TLV: | D0 | 44 | 81 | 03 | 01 | 12             | 00 | 82 | 02 | 81 | 83 | 8A |
|          | 39 | F0 | 41 | E1 | 90 | 5 <sup>8</sup> | 34 | 1E | 91 | 49 | E5 | 92 |
|          | D9 | 74 | 3E | A1 | 51 | E9             | 94 | 5A | B5 | 5E | B1 | 59 |
|          | 6D | 2B | 2C | 1E | 93 | CB             | E6 | 33 | 3A | AD | 5E | B3 |
|          | DB | EE | 37 | 3C | 2E | 9F             | D3 | EB | F6 | 3B | 3E | AF |
|          | 6F | C5 | 64 | 33 | 5A | CD             | 76 | C3 | E5 | 60 |    |    |

**Expected Sequence 1.8 (SEND USSD, 7-bit data, successful, null length alpha identifier)**

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 1.8.1   |                                  |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 1.8.1   |                                  |
| 4    | ME → USER | the ME should not give any information to the user on the fact that the ME is sending a USSD request |                                  |
| 5    | ME → USS  | REGISTER 1.1   |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 1.1  | ["USSD string received from SS"] |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 1.1.1   |                                  |

PROACTIVE COMMAND: SEND USSD 1.8.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"  
 Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: ""  
 USSD String  
 Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|          |    |    |    |    |    |    |    |                |    |    |    |    |
|----------|----|----|----|----|----|----|----|----------------|----|----|----|----|
| BER-TLV: | D0 | 46 | 81 | 03 | 01 | 12 | 00 | 82             | 02 | 81 | 83 | 85 |
|          | 00 | 8A | 39 | F0 | 41 | E1 | 90 | 5 <sup>8</sup> | 34 | 1E | 91 | 49 |
|          | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9             | 94 | 5A | B5 | 5E |
|          | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB             | E6 | 33 | 3A | AD |
|          | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F             | D3 | EB | F6 | 3B |
|          | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD             | 76 | C3 | E5 | 60 |

## 27.22.4.12.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 - 1.8.

## 27.22.4.12.2 SEND USSD (Icon support)

## 27.22.4.12.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.12.2.2 Conformance requirement

## 27.22.4.12.2.3 Test purpose

To verify that the ME displays the text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

In addition to verify that if an icon is provided by the UICC, the icon indicated in the command may be used by the ME to inform the user, in addition to, or instead of the alpha identifier, as indicated with the icon qualifier.

## 27.22.4.12.2.4 Method of test

## 27.22.4.12.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and to the USS. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS

The elementary files are coded as Toolkit default.

## 27.22.4.12.2.4.2 Procedure

**Expected Sequence 2.1A (SEND USSD, 7-bit data, successful, basic icon self explanatory, successful)**

| Step | Direction | MESSAGE / Action                           | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 2.1.1 |                                  |
| 2    | ME → UICC | FETCH                                      |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 2.1.1         | [BASIC-ICON, self-explanatory]   |
| 4    | ME → USER | Display BASIC ICON                         |                                  |
| 5    | ME → USS  | REGISTER 2.1                               |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 2.1    | ["USSD string received from SS"] |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 2.1.1A        | [Command performed successfully] |

## PROACTIVE COMMAND: SEND USSD 2.1.1

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Basic Icon"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Icon Identifier:

Icon qualifier: icon is self-explanatory

Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

|          |    |    |    |    |    |                |    |    |                |    |    |    |
|----------|----|----|----|----|----|----------------|----|----|----------------|----|----|----|
| BER-TLV: | D0 | 54 | 81 | 03 | 01 | 12             | 00 | 82 | 02             | 81 | 83 | 85 |
|          | 0A | 42 | 61 | 73 | 69 | 63             | 20 | 49 | 63             | 6F | 6E | 8A |
|          | 39 | F0 | 41 | E1 | 90 | 5 <sup>8</sup> | 34 | 1E | 91             | 49 | E5 | 92 |
|          | D9 | 74 | 3E | A1 | 51 | E9             | 94 | 5A | B5             | 5E | B1 | 59 |
|          | 6D | 2B | 2C | 1E | 93 | CB             | E6 | 33 | 3A             | AD | 5E | B3 |
|          | DB | EE | 37 | 3C | 2E | 9F             | D3 | EB | F6             | 3B | 3E | AF |
|          | 6F | C5 | 64 | 33 | 5A | CD             | 76 | C3 | E <sup>9</sup> | 60 | 9E | 02 |
|          | 00 | 01 |    |    |    |                |    |    |                |    |    |    |

## REGISTER 2.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |                |
|---------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV | 30 | 3D | 04 | 01 | F0 | 04 | 38 | 41 | E1 | 90 | 58 | 3 <sup>4</sup> |
|         | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94             |
|         | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6             |
|         | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3             |
|         | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76             |
|         | C3 | E5 | 60 |    |    |    |    |    |    |    |    |                |

## RELEASE COMPLETE (SS RETURN RESULT) 2.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "USSD string received from SS"

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 30 | 1E | 04 | 01 | F0 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|         | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|         | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

## TERMINAL RESPONSE: SEND USSD 2.1.1A

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully  
 Text String  
 Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

**Expected Sequence 2.1B (SEND USSD, 7-bit data, successful, basic icon self explanatory, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action                              | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 2.1.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 2.1.1         | [BASIC-ICON, self-explanatory]                                   |
| 4    | ME → USER | Display "Basic Icon" without the<br>icon      |  |
| 5    | ME → USS  | REGISTER 2.1                                  |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 2.1    | ["USSD string received from SS"]                                 |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 2.1.1B        | [Command performed but requested icon<br>could not be displayed] |

TERMINAL RESPONSE: SEND USSD 2.1.1B

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully, but requested icon could not be displayed

Text String

Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 04 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

**Expected Sequence 2.2 (SEND USSD, 7-bit data, successful, colour icon self explanatory)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 2.2.1   |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 2.2.1   | [COLOUR-ICON, self-explanatory]  |
| 4    | ME → USER | Display COLOUR-ICON<br>or<br>May give information to user<br>concerning what is happening |  |
| 5    | ME → USS  | REGISTER 2.1  |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 2.1  | ["USSD string received from SS"]   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 2.1.1A<br>or<br>TERMINAL RESPONSE: SEND<br>USSD 2.1.1B    | [Command performed successfully]<br>or<br>[Command performed but requested icon<br>could not be displayed] |

**PROACTIVE COMMAND: SEND USSD 2.2.1**

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Color Icon"

USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Icon Identifier:

Icon qualifier: icon is self-explanatory  
 Icon Identifier: record 2 in EF<sub>(IMG)</sub>

Coding:

|          |    |    |    |    |    |                |    |    |                |    |    |    |
|----------|----|----|----|----|----|----------------|----|----|----------------|----|----|----|
| BER-TLV: | D0 | 54 | 81 | 03 | 01 | 12             | 00 | 82 | 02             | 81 | 83 | 85 |
|          | 0A | 43 | 6F | 6C | 6F | 72             | 20 | 49 | 63             | 6F | 6E | 8A |
|          | 39 | F0 | 41 | E1 | 90 | 5 <sup>B</sup> | 34 | 1E | 91             | 49 | E5 | 92 |
|          | D9 | 74 | 3E | A1 | 51 | E9             | 94 | 5A | B5             | 5E | B1 | 59 |
|          | 6D | 2B | 2C | 1E | 93 | CB             | E6 | 33 | 3A             | AD | 5E | B3 |
|          | DB | EE | 37 | 3C | 2E | 9F             | D3 | EB | F6             | 3B | 3E | AF |
|          | 6F | C5 | 64 | 33 | 5A | CD             | 76 | C3 | E <sup>S</sup> | 60 | 9E | 02 |
|          | 00 | 02 |    |    |    |                |    |    |                |    |    |    |

**Expected Sequence 2.3A (SEND USSD, 7-bit data, successful, basic icon non self-explanatory, successful)**

| Step | Direction | MESSAGE / Action                              | Comments                           |
|------|-----------|---|------------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 2.3.1 |                                    |
| 2    | ME → UICC | FETCH   |                                    |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 2.3.1         | [BASIC-ICON, non self-explanatory] |
| 4    | ME → USER | Display "Basic Icon" and BASIC-<br>ICON       |                                    |
| 5    | ME → USS  | REGISTER 2.1                                  |                                    |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 2.1    | ["USSD string received from SS"]   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 2.1.1A        | [Command performed successfully]   |

PROACTIVE COMMAND: SEND USSD 2.3.1

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Basic Icon"

USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

Icon Identifier

Icon qualifier: icon is non self-explanatory  
 Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

|          |    |    |    |    |    |    |    |    |                |    |    |    |
|----------|----|----|----|----|----|----|----|----|----------------|----|----|----|
| BER-TLV: | D0 | 54 | 81 | 03 | 01 | 12 | 00 | 82 | 02             | 81 | 83 | 85 |
|          | 0A | 42 | 61 | 73 | 69 | 63 | 20 | 49 | 63             | 6F | 6E | 8A |
|          | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91             | 49 | E5 | 92 |
|          | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5             | 5E | B1 | 59 |
|          | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A             | AD | 5E | B3 |
|          | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6             | 3B | 3E | AF |
|          | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E <sup>5</sup> | 60 | 9E | 02 |
|          | 01 | 01 |    |    |    |    |    |    |                |    |    |    |

**Expected Sequence 2.3B (SEND USSD, 7-bit data, successful, basic icon non self-explanatory, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action                              | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 2.3.1 |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 2.3.1            | [BASIC-ICON, non self-explanatory]                            |
| 4    | ME → USER | Display "Basic Icon" without the icon         |   |
| 5    | ME → USS  | REGISTER 2.1                                  |   |
| 6    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 2.1       | ["USSD string received from SS"]                              |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 2.1.1B           | [Command performed but requested icon could not be displayed] |

**Expected Sequence 2.4 (SEND USSD, 7-bit data, basic icon non self-explanatory, no alpha identifier presented)**

| Step | Direction | MESSAGE / Action                              | Comments                            |
|------|-----------|---|-------------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 2.4.1 |                                     |
| 2    | ME → UICC | FETCH   |                                     |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 2.4.1            | [BASIC-ICON, non self-explanatory]  |
| 4    | ME → UICC | TERMINAL RESPONSE: SEND USSD 2.4.1            | [Command data not understood by ME] |

PROACTIVE COMMAND: SEND USSD 2.4.1

Logically:

Command details

Command number: 1  
Command type: SEND USSD  
Command qualifier: "00"

Device identities

Source device: UICC  
Destination device: Network

USSD String

Data coding scheme: 7-bit default, no message class  
USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

Icon Identifier

Icon qualifier: icon is non self-explanatory  
Icon Identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

| BER-TLV: | D0 | 48 | 81 | 03 | 01 | 12 | 00 | 82 | 02             | 81 | 83 | 8A |
|----------|----|----|----|----|----|----|----|----|----------------|----|----|----|
|          | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91             | 49 | E5 | 92 |
|          | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5             | 5E | B1 | 59 |
|          | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A             | AD | 5E | B3 |
|          | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6             | 3B | 3E | AF |
|          | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E <sup>5</sup> | 60 | 9E | 02 |
|          | 01 | 01 |    |    |    |    |    |    |                |    |    |    |

TERMINAL RESPONSE: SEND USSD 2.4.1



Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command data not understood by ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 32 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.12.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 - 2.4.

27.22.4.12.3 SEND USSD (UCS2 display in Cyrillic)

27.22.4.12.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.
- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in: ISO/IEC 10646 [17].

27.22.4.12.3.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.12.3.4 Method of test

27.22.4.12.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.3.4.2 Procedure

**Expected Sequence 3.1 (SEND USSD, 7-bit data, successful, UCS2 text in Cyrillic)**

| Step | Direction | MESSAGE / Action                           | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 3.1.1 |                                  |
| 2    | ME → UICC | FETCH                                      |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 3.1.1         |                                  |
| 4    | ME → USER | Display "ЗДРАВСТВУЙТЕ"                     | ["Hello" in Russian]             |
| 5    | ME → USS  | REGISTER 3.1                               |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 3.1    | [Successful]                     |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 3.1.1         | [Command performed successfully] |

## PROACTIVE COMMAND: SEND USSD 3.1.1

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

## Alpha Identifier

Data coding scheme: UCS2 (16bit)  
 Text: "ЗДРАВСТВУЙТЕ"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD String: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

Coding:

| BER-TLV: | D0 | 5F | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
|          | 19 | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 |
|          | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 |
|          | 04 | 15 | 8A | 39 | F0 | 41 | E1 | 90 | 58 | 34 | 1E | 91 |
|          | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 | 5A | B5 |
|          | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 | 33 | 3A |
|          | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 | EB | F6 |
|          | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 | C3 | E5 |
|          | 60 |    |    |    |    |    |    |    |    |    |    |    |

## REGISTER 3.1

Logically (only USSD argument)

## ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:  
 - 7-bit default, no message class  
 USSD String:  
 - "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 30 | 3D | 04 | 01 | F0 | 04 | 38 | 41 | E1 | 90 | 58 | 34 |
|         | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|         | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|         | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|         | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|         | C3 | E5 | 60 |    |    |    |    |    |    |    |    |    |

## RELEASE COMPLETE (SS RETURN RESULT) 3.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD String:

- "USSD string received from SS"

Coding:

|                      |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV <sup>V</sup> | 30 | 1E | 04 | 01 | F0 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|                      | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|                      | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

## TERMINAL RESPONSE: SEND USSD 3.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

## 27.22.4.12.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

## 27.22.4.12.4 SEND USSD (support of Text Attribute)

## 27.22.4.12.4.1 SEND USSD (support of Text Attribute – Left Alignment)

## 27.22.4.12.4.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.12.4.1.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

## 27.22.4.12.4.1.3 Test purpose

To verify that the ME displays the alpha identifier according to the left alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

## 27.22.4.12.4.1.4 Method of test

## 27.22.4.12.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.4.1.4.2 Procedure

**Expected Sequence 4.1 (SEND USSD, 7-bit data, successful, with Text Attribute – Left Alignment)**

| Step | Direction | MESSAGE / Action                              | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.1.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.1.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with left alignment]  |
| 5    | ME → USS  | REGISTER 4.1                                  |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.1.1         |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.1.2 |  |
| 9    | ME → UICC | FETCH   |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.1.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                    | [Alpha identifier is displayed without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/13, no alignment change will take place] |
| 12   | ME → USS  | REGISTER 4.1                                  |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.1.1         |  |

PROACTIVE COMMAND: SEND USSD 4.1.1

Logically:

Command details

Command number: 1  
Command type: SEND USSD  
Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 1"  
 USSD String  
 Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.1.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 2"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |    |

## REGISTER 4.1

## Logically (only USSD argument)

## ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:  
 - 7-bit default, no message class  
 USSD string:  
 - "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 30 | 3D | 04 | 01 | F0 | 04 | 40 | 41 | E1 | 90 | 58 | 34 |
|        | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|        | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|        | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|        | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|        | C3 | E5 | 60 |    |    |    |    |    |    |    |    |    |

RELEASE COMPLETE (SS RETURN RESULT) 4.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "USSD string received from SS"

Coding:

|         |    |    |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV | 30 | 1E | 04 | 01 | F0 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|         | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|         | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

TERMINAL RESPONSE: SEND USSD 4.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

27.22.4.12.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.12.4.2 SEND USSD (support of Text Attribute – Center Alignment)

27.22.4.12.4.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.12.4.2.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

## 27.22.4.12.4.2.3 Test purpose

To verify that the ME displays the alpha identifier according to the center alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

## 27.22.4.12.4.2.4 Method of test

## 27.22.4.12.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.4.2.4.2 Procedure

**Expected Sequence 4.2 (SEND USSD, 7-bit data, successful, with Text Attribute – Center Alignment)**

| Step | Direction | MESSAGE / Action                              | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.2.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.2.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with center alignment]  |
| 5    | ME → USS  | REGISTER 4.1                                  |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.2.1         |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.2.2 |  |
| 9    | ME → UICC | FETCH   |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.2.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                    | [Alpha identifier is displayed without center alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/13, no alignment change will take place] |
| 12   | ME → USS  | REGISTER 4.1                                  |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.2.1         |  |

PROACTIVE COMMAND: SEND USSD 4.2.1

Logically:

Command details

Command number: 1  
Command type: SEND USSD  
Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 1"  
 USSD String  
 Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 01 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.2.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 2"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SEND USSD 4.2.1

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities



Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Text String  
 Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

#### 27.22.4.12.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

#### 27.22.4.12.4.3 SEND USSD (support of Text Attribute – Right Alignment)

##### 27.22.4.12.4.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.12.4.3.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

##### 27.22.4.12.4.3.3 Test purpose

To verify that the ME displays the alpha identifier according to the right alignment text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.12.4.3.4 Method of test

###### 27.22.4.12.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.4.3.4.2 Procedure

**Expected Sequence 4.3 (SEND USSD, 7-bit data, successful, with Text Attribute – Right Alignment)**

| Step | Direction | MESSAGE / Action                              | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.3.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.3.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with right alignment]   |
| 5    | ME → USS  | REGISTER 4.1                                  |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.3.1         |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.3.2 |  |
| 9    | ME → UICC | FETCH   |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.3.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                    | [Alpha identifier is displayed without right alignment. Remark: If right alignment is the ME"s default alignment as declared in table A.2/13, no alignment change will take place] |
| 12   | ME → USS  | REGISTER 4.1                                  |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.3.1         |  |

PROACTIVE COMMAND: SEND USSD 4.3.1

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 02 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.3.2

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SEND USSD 4.3.1

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Text String

Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

**27.22.4.12.4.3.5 Test requirement**

The ME shall operate in the manner defined in expected sequence 4.3.

**27.22.4.12.4.4 SEND USSD (support of Text Attribute – Large Font Size)****27.22.4.12.4.4.1 Definition and applicability**

See clause 3.2.2.

**27.22.4.12.4.4.2 Conformance requirement**

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

**27.22.4.12.4.4.3 Test purpose**

To verify that the ME displays the alpha identifier according to the large font size text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

**27.22.4.12.4.4.4 Method of test****27.22.4.12.4.4.4.1 Initial conditions**

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.4.4.2 Procedure

**Expected Sequence 4.4 (SEND USSD, 7-bit data, successful, with Text Attribute – Large Font Size)**

| Step | Direction | MESSAGE / Action                              | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.4.1 |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.4.1         |   |
| 4    | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with large font size]  |
| 5    | ME → USS  | REGISTER 4.1                                  |   |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                      |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.4.1         |   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.4.2 |   |
| 9    | ME → UICC | FETCH   |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.4.2         |   |
| 11   | ME → USER | Display "Text Attribute 2"                    | [Alpha identifier is displayed with normal font size] |
| 12   | ME → USS  | REGISTER 4.1                                  |   |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                      |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.4.1         |   |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.4.1 |   |
| 16   | ME → UICC | FETCH   |   |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.4.1         |   |
| 18   | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with large font size]  |
| 19   | ME → USS  | REGISTER 4.1                                  |   |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                      |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.4.1         |   |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.4.3 |   |
| 23   | ME → UICC | FETCH   |   |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.4.3         |   |
| 25   | ME → USER | Display "Text Attribute 3"                    | [Alpha identifier is displayed with normal font size] |
| 26   | ME → USS  | REGISTER 4.1                                  |   |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                      |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.4.1         |   |

PROACTIVE COMMAND: SEND USSD 4.4.1

Logically:

## Command details

Command number: 1  
Command type: SEND USSD  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: Network

Alpha identifier: "Text Attribute 1"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 04 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.4.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.4.3

## Logically:

## Command details

Command number: 1

Command type: SEND USSD  
 Command qualifier: "00"  
 Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 3"  
 USSD String  
 Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SEND USSD 4.4.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Text String  
 Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

27.22.4.12.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.12.4.5 SEND USSD (support of Text Attribute – Small Font Size)

27.22.4.12.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.5.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

#### 27.22.4.12.4.5.3 Test purpose

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.12.4.5.4 Method of test

##### 27.22.4.12.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.



## 27.22.4.12.4.5.4.2 Procedure

**Expected Sequence 4.5 (SEND USSD, 7-bit data, successful, with Text Attribute – Small Font Size)**

| Step | Direction | MESSAGE / Action                              | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.5.1 |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.5.1         |   |
| 4    | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with small font size]  |
| 5    | ME → USS  | REGISTER 4.1                                  |   |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                      |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.5.1         |   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.5.2 |   |
| 9    | ME → UICC | FETCH   |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.5.2         |   |
| 11   | ME → USER | Display "Text Attribute 2"                    | [Alpha identifier is displayed with normal font size] |
| 12   | ME → USS  | REGISTER 4.1                                  |   |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                      |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.5.1         |   |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.5.1 |   |
| 16   | ME → UICC | FETCH   |   |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.5.1         |   |
| 18   | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with small font size]  |
| 19   | ME → USS  | REGISTER 4.1                                  |   |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                      |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.5.1         |   |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.5.3 |   |
| 23   | ME → UICC | FETCH   |   |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.5.3         |   |
| 25   | ME → USER | Display "Text Attribute 3"                    | [Alpha identifier is displayed with normal font size] |
| 26   | ME → USS  | REGISTER 4.1                                  |   |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                      |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.5.1         |   |

PROACTIVE COMMAND: SEND USSD 4.5.1

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 08 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.5.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.5.3

## Logically:

## Command details

Command number: 1

Command type: SEND USSD  
 Command qualifier: "00"  
 Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 3"  
 USSD String  
 Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SEND USSD 4.5.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Text String  
 Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

27.22.4.12.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.12.4.6 SEND USSD (support of Text Attribute – Bold On)

27.22.4.12.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.6.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

#### 27.22.4.12.4.6.3 Test purpose

To verify that the ME displays the alpha identifier according to the bold text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.12.4.6.4 Method of test

##### 27.22.4.12.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.4.6.4.2 Procedure

**Expected Sequence 4.6 (SEND USSD, 7-bit data, successful, with Text Attribute – Bold On)**

| Step | Direction | MESSAGE / Action                              | Comments                                      |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.6.1 |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.6.1         |   |
| 4    | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with bold on]  |
| 5    | ME → USS  | REGISTER 4.1                                  |   |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]              |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.6.1         |   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.6.2 |   |
| 9    | ME → UICC | FETCH   |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.6.2         |   |
| 11   | ME → USER | Display "Text Attribute 2"                    | [Alpha identifier is displayed with bold off] |
| 12   | ME → USS  | REGISTER 4.1                                  |   |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]              |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.6.1         |   |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.6.1 |   |
| 16   | ME → UICC | FETCH   |   |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.6.1         |   |
| 18   | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with bold on]  |
| 19   | ME → USS  | REGISTER 4.1                                  |   |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]              |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.6.1         |   |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.6.3 |   |
| 23   | ME → UICC | FETCH   |   |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.6.3         |   |
| 25   | ME → USER | Display "Text Attribute 3"                    | [Alpha identifier is displayed with bold off] |
| 26   | ME → USS  | REGISTER 4.1                                  |   |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]              |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.6.1         |   |

PROACTIVE COMMAND: SEND USSD 4.6.1

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

USSD String

Data coding scheme: 7-bit default, no message class

USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 10 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.6.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.6.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 3"  
 USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SEND USSD 4.6.1

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Text String

Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

## 27.22.4.12.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

## 27.22.4.12.4.7 SEND USSD (support of Text Attribute – Italic On)

## 27.22.4.12.4.7.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.12.4.7.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

## 27.22.4.12.4.7.3 Test purpose

To verify that the ME displays the alpha identifier according to the italic text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

## 27.22.4.12.4.7.4 Method of test

## 27.22.4.12.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.4.7.4.2 Procedure

**Expected Sequence 4.7 (SEND USSD, 7-bit data, successful, with Text Attribute – Italic On)**

| Step | Direction | MESSAGE / Action                              | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.7.1 |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.7.1         |   |
| 4    | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with italic on]  |
| 5    | ME → USS  | REGISTER 4.1                                  |   |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.7.1         |   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.7.2 |   |
| 9    | ME → UICC | FETCH   |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.7.2         |   |
| 11   | ME → USER | Display "Text Attribute 2"                    | [Alpha identifier is displayed with italic off] |
| 12   | ME → USS  | REGISTER 4.1                                  |   |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.7.1         |   |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.7.1 |   |
| 16   | ME → UICC | FETCH   |   |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.7.1         |   |
| 18   | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with italic on]  |
| 19   | ME → USS  | REGISTER 4.1                                  |   |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.7.1         |   |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.7.3 |   |
| 23   | ME → UICC | FETCH   |   |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.7.3         |   |
| 25   | ME → USER | Display "Text Attribute 3"                    | [Alpha identifier is displayed with italic off] |
| 26   | ME → USS  | REGISTER 4.1                                  |   |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.7.1         |   |



## PROACTIVE COMMAND: SEND USSD 4.7.1

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off,  
 Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 20 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.7.2

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.7.3

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 3"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SEND USSD 4.7.1

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Text String

Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

#### 27.22.4.12.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

#### 27.22.4.12.4.8 SEND USSD (support of Text Attribute – Underline On)

##### 27.22.4.12.4.8.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.12.4.8.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

##### 27.22.4.12.4.8.3 Test purpose

To verify that the ME displays the alpha identifier according to the underline text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.12.4.8.4 Method of test

###### 27.22.4.12.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.4.8.4.2 Procedure

**Expected Sequence 4.8 (SEND USSD, 7-bit data, successful, with Text Attribute – Underline On)**

| Step | Direction | MESSAGE / Action                              | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.8.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.8.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with underline on]  |
| 5    | ME → USS  | REGISTER 4.1                                  |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.8.1         |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.8.2 |  |
| 9    | ME → UICC | FETCH   |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.8.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                    | [Alpha identifier is displayed with underline off] |
| 12   | ME → USS  | REGISTER 4.1                                  |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.8.1         |  |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.8.1 |  |
| 16   | ME → UICC | FETCH   |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.8.1         |  |
| 18   | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with underline on]  |
| 19   | ME → USS  | REGISTER 4.1                                  |  |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                   |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.8.1         |  |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.8.3 |  |
| 23   | ME → UICC | FETCH   |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.8.3         |  |
| 25   | ME → USER | Display "Text Attribute 3"                    | [Alpha identifier is displayed with underline off] |
| 26   | ME → USS  | REGISTER 4.1                                  |  |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                   |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.8.1         |  |

PROACTIVE COMMAND: SEND USSD 4.8.1

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 1"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On,  
 Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 40 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.8.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-  
 1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.8.3

## Logically:

## Command details

Command number: 1

Command type: SEND USSD  
 Command qualifier: "00"  
 Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 3"  
 USSD String  
 Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SEND USSD 4.8.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Text String  
 Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

27.22.4.12.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.12.4.9 SEND USSD (support of Text Attribute – Strikethrough On)

27.22.4.12.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.9.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

#### 27.22.4.12.4.9.3 Test purpose

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.12.4.9.4 Method of test

##### 27.22.4.12.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.4.9.4.2 Procedure

**Expected Sequence 4.9 (SEND USSD, 7-bit data, successful, with Text Attribute – Strikethrough On)**

| Step | Direction | MESSAGE / Action                              | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.9.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.9.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with strikethrough on]  |
| 5    | ME → USS  | REGISTER 4.1                                  |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                       |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.9.1         |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.9.2 |  |
| 9    | ME → UICC | FETCH   |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.9.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                    | [Alpha identifier is displayed with strikethrough off] |
| 12   | ME → USS  | REGISTER 4.1                                  |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                       |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.9.1         |  |
| 15   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.9.1 |  |
| 16   | ME → UICC | FETCH   |  |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.9.1         |  |
| 18   | ME → USER | Display "Text Attribute 1"                    | [Alpha identifier is displayed with strikethrough on]  |
| 19   | ME → USS  | REGISTER 4.1                                  |  |
| 20   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                       |
| 21   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.9.1         |  |
| 22   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.9.3 |  |
| 23   | ME → UICC | FETCH   |  |
| 24   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.9.3         |  |
| 25   | ME → USER | Display "Text Attribute 3"                    | [Alpha identifier is displayed with strikethrough off] |
| 26   | ME → USS  | REGISTER 4.1                                  |  |
| 27   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1    | ["USSD string received from SS"]                       |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.9.1         |  |

PROACTIVE COMMAND: SEND USSD 4.9.1

Logically:

## Command details

Command number: 1  
Command type: SEND USSD  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: Network

Alpha identifier: "Text Attribute 1"



USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 80 | B4 |    |    |

PROACTIVE COMMAND: SEND USSD 4.9.2

Logically:

Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |

PROACTIVE COMMAND: SEND USSD 4.9.3

Logically:

Command details

Command number: 1

Command type: SEND USSD  
 Command qualifier: "00"  
 Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Text Attribute 3"  
 USSD String  
 Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 33 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SEND USSD 4.9.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Text String  
 Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

27.22.4.12.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.12.4.10 SEND USSD (support of Text Attribute – Foreground and Background Colour)

27.22.4.12.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.10.2 Conformance requirement

The terminal shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.

#### 27.22.4.12.4.10.3 Test purpose

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.12.4.10.4 Method of test

##### 27.22.4.12.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.

The elementary files are coded as UICC default. Prior to this test the terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

##### 27.22.4.12.4.10.4.2 Procedure

#### Expected Sequence 4.10 (SEND USSD, 7-bit data, successful, with Text Attribute – Foreground and Background Colour)

| Step | Direction | MESSAGE / Action                               | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.10.1 |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.10.1         |  |
| 4    | ME → USER | Display "Text Attribute 1"                     | [Message shall be formatted with foreground and background colour according to text attribute configuration] |
| 5    | ME → USS  | REGISTER 4.1                                   |  |
| 6    | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1     | ["USSD string received from SS"]   |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.10.1         |  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND USSD 4.10.2 |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>USSD 4.10.2         |  |
| 11   | ME → USER | Display "Text Attribute 2"                     | [Message shall be formatted with ME's default foreground and background colour]                              |
| 12   | ME → USS  | REGISTER 4.1                                   |  |
| 13   | USS → ME  | RELEASE COMPLETE (SS<br>RETURN RESULT) 4.1     | ["USSD string received from SS"]   |
| 14   | ME → UICC | TERMINAL RESPONSE: SEND<br>USSD 4.10.1         |  |

PROACTIVE COMMAND: SEND USSD 4.10.1

Logically:

##### Command details

Command number: 1  
Command type: SEND USSD  
Command qualifier: "00"

##### Device identities

Source device: UICC  
Destination device: Network

Alpha identifier: "Text Attribute 1"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 5C | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 31 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |

## PROACTIVE COMMAND: SEND USSD 4.10.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Text Attribute 2"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD string: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 56 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 10 | 54 | 65 | 78 | 74 | 20 | 41 | 74 | 74 | 72 | 69 | 62 |
|          | 75 | 74 | 65 | 20 | 32 | 8A | 39 | F0 | 41 | E1 | 90 | 58 |
|          | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 |
|          | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB |
|          | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F |
|          | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD |
|          | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SEND USSD 4.10.1

## Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Text String  
 Data coding scheme: 7-bit default, no message class  
 String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

#### 27.22.4.12.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

#### 27.22.4.12.5 SEND USSD (UCS2 display in Chinese)

##### 27.22.4.12.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.12.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.
- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in: ISO/IEC 10646 [17].

##### 27.22.4.12.5.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.12.5.4 Method of test

##### 27.22.4.12.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.5.4.2 Procedure

**Expected Sequence 5.1 (SEND USSD, 7-bit data, successful, UCS2 text in Chinese)**

| Step | Direction | MESSAGE / Action                           | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 5.1.1 |                                  |
| 2    | ME → UICC | FETCH                                      |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 5.1.1         |                                  |
| 4    | ME → USER | Display "你好"                               | ["Hello" in Chinese]             |
| 5    | ME → USS  | REGISTER 5.1                               |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 5.1    | [Successful]                     |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 5.1.1         | [Command performed successfully] |

## PROACTIVE COMMAND: SEND USSD 5.1.1

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

## Alpha Identifier

Data coding scheme: UCS2 (16bit)  
 Text: "你好"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD String: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

| BER-TLV: | D0 | 4B | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
|          | 05 | 80 | 4F | 60 | 59 | 7D | 8A | 39 | F0 | 41 | E1 | 90 |
|          | 58 | 34 | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 |
|          | E9 | 94 | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 |
|          | CB | E6 | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E |
|          | 9F | D3 | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A |
|          | CD | 76 | C3 | E5 | 60 |    |    |    |    |    |    |    |

## REGISTER 5.1

Logically (only USSD argument)

## ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:  
 - 7-bit default, no message class

USSD String:  
 - "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 30 | 3D | 04 | 01 | F0 | 04 | 38 | 41 | E1 | 90 | 58 | 34 |
|        | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|        | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|        | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|        | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|        | C3 | E5 | 60 |    |    |    |    |    |    |    |    |    |

RELEASE COMPLETE (SS RETURN RESULT) 5.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD String:

- "USSD string received from SS"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 30 | 1E | 04 | 01 | 00 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|        | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|        | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

TERMINAL RESPONSE: SEND USSD 5.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

27.22.4.12.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

27.22.4.12.6 SEND USSD (UCS2 display in Katakana)

27.22.4.12.6.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.12.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send USSD facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.
- TS 23.038 [7] clause 5

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in: ISO/IEC 10646 [17].

## 27.22.4.12.6.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND USSD proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

## 27.22.4.12.6.4 Method of test

## 27.22.4.12.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.12.6.4.2 Procedure

**Expected Sequence 6.1 (SEND USSD, 7-bit data, successful, UCS2 text in Katakana)**

| Step | Direction | MESSAGE / Action                           | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SEND USSD 6.1.1 |                                  |
| 2    | ME → UICC | FETCH                                      |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND USSD 6.1.1         |                                  |
| 4    | ME → USER | Display "ル"                                | [Character " in Katakana]        |
| 5    | ME → USS  | REGISTER 6.1                               |                                  |
| 6    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 6.1    | [Successful]                     |
| 7    | ME → UICC | TERMINAL RESPONSE: SEND USSD 6.1.1         | [Command performed successfully] |

## PROACTIVE COMMAND: SEND USSD 6.1.1

Logically:

## Command details

Command number: 1  
 Command type: SEND USSD  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

## Alpha Identifier

Data coding scheme: UCS2 (16bit)  
 Text: "ル"

## USSD String

Data coding scheme: 7-bit default, no message class  
 USSD String: "ABCDEFGHJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxy-1234567890"

Coding:



|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 49 | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 03 | 80 | 30 | EB | 8A | 39 | F0 | 41 | E1 | 90 | 58 | 34 |
|          | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|          | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|          | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|          | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|          | C3 | E5 | 60 |    |    |    |    |    |    |    |    |    |

## REGISTER 6.1

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD String:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 30 | 3D | 04 | 01 | F0 | 04 | 38 | 41 | E1 | 90 | 58 | 34 |
|        | 1E | 91 | 49 | E5 | 92 | D9 | 74 | 3E | A1 | 51 | E9 | 94 |
|        | 5A | B5 | 5E | B1 | 59 | 6D | 2B | 2C | 1E | 93 | CB | E6 |
|        | 33 | 3A | AD | 5E | B3 | DB | EE | 37 | 3C | 2E | 9F | D3 |
|        | EB | F6 | 3B | 3E | AF | 6F | C5 | 64 | 33 | 5A | CD | 76 |
|        | C3 | E5 | 60 |    |    |    |    |    |    |    |    |    |

## RELEASE COMPLETE (SS RETURN RESULT) 6.1

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD String:

- "USSD string received from SS"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 30 | 1E | 04 | 01 | 00 | 04 | 19 | D5 | E9 | 94 | 08 | 9A |
|        | D3 | E5 | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 |
|        | 0C | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

## TERMINAL RESPONSE: SEND USSD 6.1.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class

String: "USSD string received from SS"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 12 | 00 | 82 | 02 | 82 | 81 | 83 | 01 |
|          | 00 | 8D | 1A | 00 | D5 | E9 | 94 | 08 | 9A | D3 | E5 |
|          | 69 | F7 | 19 | 24 | 2F | 8F | CB | 69 | 7B | 99 | 0C |
|          | 32 | CB | DF | 6D | D0 | 74 | 0A |    |    |    |    |

#### 27.22.4.12.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

### 27.22.4.13 SET UP CALL

#### 27.22.4.13.1 SET UP CALL (normal)

##### 27.22.4.13.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.13.1.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

##### 27.22.4.13.1.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

##### 27.22.4.13.1.4 Method of test

###### 27.22.4.13.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default, with the following exceptions for sequence 1.1 only:

- The Outgoing Call Information (OCI and OCT) service is available in the USIM Service Table.
- EF<sub>OCI</sub> (Outgoing Call Information) is present with the following content:

Logically: Invalid

|         |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Byte:   | B01 | ... | B41 | B42 | B43 | B44 | B45 | B46 | B47 |
| Coding: | FF  | ... | FF  | 00  | 00  | 00  | 01  | FF  | FF  |

- EF<sub>OCT</sub> (Outgoing Call Timer) is present with the following content:

Logically: Accumulated call timer value: 0

|         |     |     |     |
|---------|-----|-----|-----|
| Byte:   | B01 | B02 | B03 |
| Coding: | 00  | 00  | 00  |

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.13.1.4.2 Procedure

**Expected Sequence 1.1 (SET UP CALL, call confirmed by the user and connected)**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.1.1                                 |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.1.1   |   |
| 4    | ME → USER | ME displays "Not busy" during user confirmation phase.                       |   |
| 5    | USER → ME | The user confirms the call set up  | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456"                          |   |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.                            | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 1.1.1  | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns to idle mode.           |   |
| 10   | ME → UICC | The ME shall not have updated EF OCI or EF OCT with the call set-up details. |   |

## PROACTIVE COMMAND: SET UP CALL 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Not busy"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Coding:

| BER-TLV | D0 | 1E | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|---------|----|----|----|----|----|----|----|----|----|----|----|----|
|         | 08 | 4E | 6F | 74 | 20 | 62 | 75 | 73 | 79 | 86 | 09 | 91 |
|         | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C |    |    |    |    |

## TERMINAL RESPONSE: SET UP CALL 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.2 (SET UP CALL, call rejected by the user)**

| Step | Direction | MESSAGE / Action  | Comments                                  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.1.1           |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.1.1                      |   |
| 4    | ME → USER | ME displays "Not busy" during the user confirmation phase |   |
| 5    | USER → ME | The user rejects the set up call                          | [user rejects the call]                   |
| 6    | ME → UICC | TERMINAL RESPONSE 1.2.1                                   | [User did not accept call set-up request] |
| 7    | ME → USER | The ME returns in idle mode.                              |   |

TERMINAL RESPONSE: SET UP CALL 1.2.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: User did not accept the proactive command

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 22 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

Expected Sequence 1.3void

**Expected Sequence 1.4 (SET UP CALL, putting all other calls on hold, ME busy)**

ME is busy on a call

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.4.1   |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.4.1   | [putting all other calls on hold]   |
| 4    | ME → USER | ME displays "On hold" during the user confirmation phase   |   |
| 5    | USER → ME | The user confirms the set up call  | [user confirms the call]  |
| 6    | ME → USS  | The active call is put on hold   |   |
| 7    | ME → USS  | The ME attempts to set up a call to "+012340123456"  |   |
| 8    | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 9    | ME → UICC | TERMINAL RESPONSE 1.4.1  | [Command performed successfully]  |
| 10   | USER → ME | The user ends the call after 10 s. The ME retrieves the previous call automatically or on request of the user. |   |

## PROACTIVE COMMAND: SET UP CALL 1.4.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: putting all other calls on hold

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "On hold"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Coding:

| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 10 | 02 | 82 | 02 | 81 | 83 | 85 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
|          | 07 | 4F | 6E | 20 | 68 | 6F | 6C | 64 | 86 | 09 | 91 | 10 |
|          | 32 | 04 | 21 | 43 | 65 | 1C | 2C |    |    |    |    |    |

## TERMINAL RESPONSE: SET UP CALL 1.4.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: putting all other calls on hold

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.5 (SET UP CALL, disconnecting all other calls, ME busy)**

ME is busy on a call

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.5.1                |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.5.1                        | [disconnecting all other calls]   |
| 4    | ME → USER | ME displays "Disconnect" during the user confirmation phase |   |
| 5    | USER → ME | The user confirms the set up call                           | [user confirms the call]  |
| 6    | ME → USS  | The ME disconnects the active call                          |   |
| 7    | ME → USS  | The ME attempts to set up a call to "+012340123456"         |   |
| 8    | USS → ME  | The ME receives the CONNECT message from the USS.           | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 9    | ME → UICC | TERMINAL RESPONSE 1.5.1                                     | [Command performed successfully]  |
| 10   | USER → ME | The user ends the call after 10 s.                          |   |

## PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: disconnecting all other calls

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Disconnect"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Coding:

|          |    |    |    |    |                |                |    |    |    |    |    |    |
|----------|----|----|----|----|----------------|----------------|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01             | 10             | 04 | 82 | 02 | 81 | 83 | 85 |
|          | 0A | 44 | 69 | 73 | 6 <sup>3</sup> | 6 <sup>F</sup> | 6E | 6E | 65 | 63 | 74 | 86 |
|          | 09 | 91 | 10 | 32 | 04             | 21             | 43 | 65 | 1C | 2C |    |    |

## TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: putting all other calls on hold

## Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 04 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.6 (SET UP CALL, only if not currently busy on another call, ME busy)**

ME is busy on a call

| Step | Direction | MESSAGE / Action                                | Comments                                     |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.1.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.1.1            | [only if not currently busy on another call] |
| 4    | ME → UICC | TERMINAL RESPONSE 1.6.1                         | [ME currently unable to process command]     |

TERMINAL RESPONSE: SET UP CALL 1.6.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: ME currently unable to process command  
 Additional Information: ME currently busy on call

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 02 | 20 |
|          | 02 |    |    |    |    |    |    |    |    |    |    |    |

**Expected Sequence 1.7 (SET UP CALL, putting all other calls on hold, call hold is not allowed)**

ME is busy on a call. The USS shall be configured to not allow Call Hold.

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.4.1            |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.4.1                       | [putting all other calls on hold]  |
| 4    | ME → USER | ME displays "On hold" during the user confirmation phase   |  |
| 5    | USER → ME | The user confirms the set up call                          | [user confirms the call]   |
| 6    | ME → USS  | The ME attempts to put the active call on hold.            |  |
| 7    | USS->ME   | The ME receives the HOLD REJECT message from the USS.      | [USS sends 'Facility Rejected' as cause value]   |
| 8    | ME → UICC | TERMINAL RESPONSE 1.7.1A<br>OR<br>TERMINAL RESPONSE 1.7.1B | [Network currently unable to process command]<br>[Option A shall apply only from R99 to Rel-6, whereas option B is applicable in all releases] |

TERMINAL RESPONSE: SET UP CALL 1.7.1A

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: putting all other calls on hold

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Network currently unable to process command  
 Additional Information: No specific cause can be given

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 02 | 82 | 02 | 82 | 81 | 83 | 02 | 21 |
|          | 00 |    |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP CALL 1.7.1B

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: putting all other calls on hold

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Network currently unable to process command  
 Additional Information: Facility Rejected

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 02 | 82 | 02 | 82 | 81 | 83 | 02 | 21 |
|          | 9D |    |    |    |    |    |    |    |    |    |    |    |

**Expected Sequence 1.8 (SET UP CALL, Capability configuration)**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.8.1  |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.8.1   | [Capability configuration parameters: full rate support]  |
| 4    | ME → USER | ME displays "Capability config" during the user confirmation phase   |   |
| 5    | USER → ME | The user confirms the set up call  | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456" using the capability configuration parameters supplied by UICC |   |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 1.8.1  | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s<br>The ME returns in idle mode.  |   |



## PROACTIVE COMMAND: SET UP CALL 1.8.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: if not busy on another call

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Capability config"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

## Capability configuration parameters

Information transfer cap: full rate support only MS

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2B | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 11 | 43 | 61 | 70 | 61 | 62 | 69 | 6C | 69 | 74 | 79 | 20 |
|          | 63 | 6F | 6E | 66 | 69 | 67 | 86 | 09 | 91 | 10 | 32 | 04 |
|          | 21 | 43 | 65 | 1C | 2C | 87 | 02 | 01 | A0 |    |    |    |

## TERMINAL RESPONSE: SET UP CALL 1.8.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: if not busy on another call

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.9 (SET UP CALL, max dialling number string, no alpha identifier)**

| Step | Direction | MESSAGE / Action   | Comments                                      |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.9.1                                |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND SET UP<br>CALL 1.9.1   | [dialling number string, no alpha identifier] |
| 4    | USER → ME | The user confirms the set up call  | [user confirmation]                           |
| 5    | ME → USS  | The ME attempts to set up a call to<br>"+01234567890123456789012345<br>678901" |   |
| 6    | USS → ME  | The ME receives the CONNECT<br>message from the USS.                           |   |
| 7    | ME → UICC | TERMINAL RESPONSE 1.9.1  | [Command performed successfully]              |
| 8    | USER → ME | The user ends the call<br>The ME returns in idle mode.                         |   |

## PROACTIVE COMMAND: SET UP CALL 1.9.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call with redial

## Device identities

Source device: UICC  
 Destination device: Network

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "01234567890123456789012345678901"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 81 | 83 | 86 |
|          | 11 | 91 | 10 | 32 | 54 | 76 | 98 | 10 | 32 | 54 | 76 | 98 |
|          | 10 | 32 | 54 | 76 | 98 | 10 |    |    |    |    |    |    |

## TERMINAL RESPONSE: SET UP CALL 1.9.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call with redial

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.10 (SET UP CALL,256 octets length, long first alpha identifier)**

| Step | Direction | MESSAGE / Action  | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 1.10.1   |                                  |
| 2    | ME → UICC | FETCH   |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.10.1   | [ alpha identifier]              |
| 4    | ME → USER | ME displays "Three types are defined: - set up a call, but only if not currently busy on another call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, " during the user confirmation phase. |                                  |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation]              |
| 6    | ME → USS  | The ME attempts to set up a call to "+01"   |                                  |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.   |                                  |
| 8    | ME → UICC | TERMINAL RESPONSE 1.10.1  | [Command performed successfully] |
| 9    | USER → ME | The user ends the call<br>The ME returns in idle mode.  |                                  |

## PROACTIVE COMMAND: SET UP CALL 1.10.1

## Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call with redial

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Three types are defined: - set up a call, but only if not currently busy on another call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, "

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "01"

## Coding:

|          |    |    |    |    |                |                |    |                |    |    |    |                |
|----------|----|----|----|----|----------------|----------------|----|----------------|----|----|----|----------------|
| BER-TLV: | D0 | 81 | FD | 81 | 03             | 01             | 10 | 01             | 82 | 02 | 81 | 83             |
|          | 85 | 81 | ED | 54 | 68             | 72             | 65 | 65             | 20 | 74 | 79 | 70             |
|          | 65 | 73 | 20 | 61 | 72             | 65             | 20 | 64             | 65 | 66 | 69 | 6E             |
|          | 65 | 64 | 3A | 20 | 2D             | 20             | 73 | 65             | 74 | 20 | 75 | 70             |
|          | 20 | 61 | 20 | 63 | 61             | 6C             | 6C | 2C             | 20 | 62 | 75 | 74             |
|          | 20 | 6F | 6E | 6C | 79             | 20             | 69 | 66             | 20 | 6E | 6F | 74             |
|          | 20 | 63 | 75 | 72 | 72             | 65             | 6E | 74             | 6C | 79 | 20 | 62             |
|          | 75 | 73 | 79 | 20 | 6F             | 6E             | 20 | 61             | 6E | 6F | 74 | 68             |
|          | 65 | 72 | 20 | 63 | 61             | 6C             | 6C | 3B             | 20 | 2D | 20 | 73             |
|          | 65 | 74 | 20 | 75 | 70             | 20             | 61 | 20             | 63 | 61 | 6C | 6C             |
|          | 2C | 20 | 70 | 75 | 74             | 74             | 69 | 6E             | 67 | 20 | 61 | 6C             |
|          | 6C | 20 | 6F | 74 | 68             | 65             | 72 | 20             | 63 | 61 | 6C | 6C             |
|          | 73 | 20 | 28 | 69 | 66             | 20             | 61 | 6E             | 79 | 29 | 20 | 6F             |
|          | 6E | 20 | 68 | 6F | 6C             | 64             | 3B | 20             | 2D | 20 | 73 | 65             |
|          | 74 | 20 | 75 | 70 | 20             | 61             | 20 | 63             | 61 | 6C | 6C | 2C             |
|          | 20 | 64 | 69 | 73 | 6 <sup>s</sup> | 6 <sup>r</sup> | 6E | 6E             | 65 | 63 | 74 | 6 <sup>9</sup> |
|          | 6E | 67 | 20 | 61 | 6C             | 6C             | 20 | 6F             | 74 | 68 | 65 | 72             |
|          | 20 | 63 | 61 | 6C | 6C             | 73             | 20 | 28             | 69 | 66 | 20 | 6 <sup>1</sup> |
|          | 6E | 79 | 29 | 20 | 66             | 69             | 72 | 7 <sup>s</sup> | 74 | 2E | 20 | 46             |
|          | 6F | 72 | 20 | 65 | 61             | 63             | 68 | 20             | 6F | 66 | 20 | 74             |
|          | 68 | 65 | 73 | 65 | 20             | 74             | 79 | 70             | 65 | 73 | 2C | 20             |
|          | 86 | 02 | 91 | 10 |                |                |    |                |    |    |    |                |

## TERMINAL RESPONSE: SET UP CALL 1.10.1

## Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call with redial

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.11A (SET UP CALL, Called party subaddress, command performed successfully)**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.11.1   |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.11.1  | [set up a call with called party subaddress]  |
| 4    | ME → USER | ME displays "Called party" during the user confirmation phase                                    |   |
| 5    | USER → ME | The user confirms the set up call  | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456" with the called party subaddress information |   |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 1.11.1A  | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s<br>The ME returns in idle mode.                                |   |

**Expected Sequence 1.11B (SET UP CALL, Called party subaddress, ME not supporting the called party subaddress)**

| Step | Direction | MESSAGE / Action                                 | Comments                                     |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.11.1 |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.11.1            | [set up a call with called party subaddress] |
| 4    | ME → UICC | TERMINAL RESPONSE 1.11.1B                        | [beyond ME's capabilities]                   |

PROACTIVE COMMAND: SET UP CALL 1.11.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: if not busy on another call

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Called party"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"

Called party subaddress

Type of subaddress: NSAP (X.213 / ISO 8348 AD2)  
 Odd / even indicator: even number of address signals  
 Subaddress information: AFI, 95, 95, 95, 95, 95

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2B | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0C | 43 | 61 | 6C | 6C | 65 | 64 | 20 | 70 | 61 | 72 | 74 |
|          | 79 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C |
|          | 88 | 07 | 80 | 50 | 95 | 95 | 95 | 95 | 95 |    |    |    |

TERMINAL RESPONSE: SET UP CALL 1.11.1A

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: if not busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

TERMINAL RESPONSE: SET UP CALL 1.11.1B

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: if not busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Beyond ME's capabilities

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 30 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.12 (SET UP CALL, maximum duration for the redial mechanism)**

The USS shall be configured such that call set up requests will be rejected with cause "User Busy".

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 1.12.1   |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.12.1  | [only if not currently busy on another call with redial] |
| 4    | ME → USER | ME displays "Duration" during the user confirmation phase                                |  |
| 5    | USER → ME | The user confirms the set up call  | [user confirms the call]                                 |
| 6    | ME → USS  | ME attempts to set up a call to "+012340123456". It stops its attempts after 10 seconds. | [redial mechanism with maximum duration of 10 seconds]   |
| 7    | ME → UICC | TERMINAL RESPONSE 1.12.1   | [network currently unable to process command]            |
| 8    | ME → USER | The ME returns in idle mode.   |  |

PROACTIVE COMMAND: SET UP CALL 1.12.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL

Command qualifier: only if not currently busy on another call with redial

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "Duration"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string: "012340123456p1p2"

Duration

Unit: Seconds

Interval: 10

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 81 | 83 | 85 |
|          | 08 | 44 | 75 | 72 | 61 | 74 | 69 | 6F | 6E | 86 | 09 | 91 |
|          | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C | 84 | 02 | 01 | 0A |

TERMINAL RESPONSE: SET UP CALL 1.12.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call with redial

Device identities

Source device: ME

Destination device: UICC

Result

General Result: network currently unable to process command

Additional Information: User Busy

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 01 | 82 | 02 | 82 | 81 | 83 | 02 | 21 |
|          | 91 |    |    |    |    |    |    |    |    |    |    |    |

27.22.4.13.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.12.

27.22.4.13.2 SET UP CALL (second alpha identifier)

27.22.4.13.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.2.2 Conformance requirement

Same as clause 27.22.4.13.2.1.

27.22.4.13.2.3 Test purpose

To verify that the ME accepts a Proactive Command - Set Up Call, displays the alpha identifiers to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.2.4 Method of test

27.22.4.13.2.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and is in updated idle mode on the USS.

27.22.4.13.2.4.2 Procedure

**Expected Sequence 2.1 (SET UP CALL, two alpha identifiers)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 2.1.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 2.1.1   |   |
| 4    | ME → USER | ME displays "CONFIRMATION" during<br>the user confirmation phase                            |   |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL"           | [second alpha identifier]   |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 2.1.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |

PROACTIVE COMMAND: SET UP CALL 2.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 28 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0C | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C |
|          | 85 | 04 | 43 | 41 | 4C | 4C |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP CALL 2.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.13.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

27.22.4.13.3 SET UP CALL (display of icons)

27.22.4.13.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.3.2 Conformance requirement

27.22.4.13.3.3 Test purpose

To verify that the ME accepts a Proactive Set Up Call , displays the message or icon to the user ,attempts to set up a call to the address, returns the result in the TERMINAL response.

27.22.4.13.3.4 Method of test

27.22.4.13.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and is in updated idle mode on the USS.



27.22.4.13.3.4.2 Procedure

**Expected Sequence 3.1A (SET UP CALL, display of basic icon during confirmation phase, not self-explanatory, successful )**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND   | Including icon identifier, icon shall be displayed in addition of the first alpha identifier<br><br>[user confirmation]<br><br>[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]<br>[Command performed successfully] |
| 2    | ME → UICC | PENDING: SET UP CALL 3.1.1  |  |
| 3    | UICC → ME | FETCH   |  |
| 4    | ME → USER | PROACTIVE COMMAND: SET UP CALL 3.1.1  |  |
| 5    | ME → USER | ME displays "Set up call Icon 3.1.1" and the basic icon during a user confirmation phase. |  |
| 6    | USER → ME | The user confirms the set up call   |  |
| 7    | ME → USS  | The ME attempts to set up a call to "+012340123456"                                       |  |
| 8    | USS → ME  | The ME receives the CONNECT message from the USS.   |  |
| 9    | ME → UICC | TERMINAL RESPONSE 3.1.1A  |  |
| 10   | USER → ME | The user ends the call after 10 s. The ME returns in idle mode.                           |  |

PROACTIVE COMMAND: SET UP CALL 3.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Set up call Icon 3.1.1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is not self-explanatory  
 Icon identifier: <record 1 in EF IMG>

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 30 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 16 | 53 | 65 | 74 | 20 | 75 | 70 | 20 | 63 | 61 | 6C | 6C |
|          | 20 | 49 | 63 | 6F | 6E | 20 | 33 | 2E | 31 | 2E | 31 | 86 |
|          | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C | 9E | 02 |
|          | 01 | 01 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP CALL 3.1.1A

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 3.1B (SET UP CALL, display of basic icon during confirmation phase, not self-explanatory, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 3.1.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.1.1  | Including icon identifier, icon shall be displayed in addition of the first alpha identifier            |
| 4    | ME → USER | ME displays "Set up call icon 3.1.1" without the basic icon during a user confirmation phase. |   |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456"   |   |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.   | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 3.1.1B  | [Command performed successfully, but requested icon could not be displayed].                            |
| 9    | USER → ME | The user ends the call after 10 s. The ME returns in idle mode.                               |   |

TERMINAL RESPONSE: SET UP CALL 3.1.1B

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully, but requested icon could not be displayed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 3.2A (SET UP CALL, display of basic icon during confirmation phase, self-explanatory, successful )**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 3.2.1                    |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.2.1                               | Including icon identifier, icon shall be displayed instead of the first alpha identifier                |
| 4    | ME → USER | ME displays the basic icon during a user confirmation phase.       |   |
| 5    | USER → ME | The user confirms the set up call                                  | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456"                |   |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.                  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 3.2.1A   | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode. |   |

**PROACTIVE COMMAND: SET UP CALL 3.2.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Set up call Icon 3.2.1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is self-explanatory  
 Icon identifier: <record 1 in EF IMG>

Coding:

|          |    |    |                |    |    |                |    |                |    |    |    |    |
|----------|----|----|----------------|----|----|----------------|----|----------------|----|----|----|----|
| BER-TLV: | D0 | 30 | 81             | 03 | 01 | 10             | 00 | 82             | 02 | 81 | 83 | 85 |
|          | 16 | 53 | 65             | 74 | 20 | 75             | 70 | 20             | 63 | 61 | 6C | 6C |
|          | 20 | 49 | 6 <sup>3</sup> | 6F | 6E | 2 <sup>0</sup> | 33 | 2 <sup>E</sup> | 32 | 2E | 31 | 86 |
|          | 09 | 91 | 10             | 32 | 04 | 21             | 43 | 65             | 1C | 2C | 9E | 02 |
|          | 00 | 01 |                |    |    |                |    |                |    |    |    |    |

**TERMINAL RESPONSE: SET UP CALL 3.2.1A**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 3.2B (SET UP CALL, display of basic icon during confirmation phase, self-explanatory, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 3.2.1                    |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.2.1                               | Including icon identifier, icon shall be displayed instead of the first alpha identifier                |
| 4    | ME → USER | ME display "Set up call Icon 3.2.1" without the icon               |   |
| 5    | USER → ME | The user confirms the set up call                                  | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456"                |   |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.                  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 3.2.1B   | [Command performed successfully, but requested icon could not be displayed].                            |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode. |   |

TERMINAL RESPONSE: SET UP CALL 3.2.1B

Logically:

Command details

- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call

Device identities

- Source device: ME
- Destination device: UICC

Result

- General Result: Command performed successfully, but requested icon could not be displayed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 3.3A (SET UP CALL, display of colour icon during confirmation phase, not self-explanatory, successful)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND  | Including icon identifier, icon shall be displayed in addition of the first alpha identifier<br><br>[user confirmation]<br><br>[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]<br>[Command performed successfully] |
| 2    | ME → UICC | PENDING: SET UP CALL 3.3.1   |  |
| 3    | UICC → ME | FETCH  |  |
| 4    | ME → USER | PROACTIVE COMMAND: SET UP CALL 3.3.1<br>ME displays "Set up call Icon 3.3.1" and the colour icon during a user confirmation phase. |  |
| 5    | USER → ME | The user confirms the set up call  |  |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456"  |  |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.  |  |
| 8    | ME → UICC | TERMINAL RESPONSE 3.3.1A   |  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.   |  |

**PROACTIVE COMMAND: SET UP CALL 3.3.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Set up call Icon 3.3.1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is not self-explanatory  
 Icon identifier: <record 2 in EF IMG>

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 30 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 16 | 53 | 65 | 74 | 20 | 75 | 70 | 20 | 63 | 61 | 6C | 6C |
|          | 20 | 49 | 63 | 6F | 6E | 20 | 33 | 2E | 33 | 2E | 31 | 86 |
|          | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C | 9E | 02 |
|          | 01 | 02 |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE: SET UP CALL 3.3.1A**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 3.3B (SET UP CALL, display of colour icon during confirmation phase, not self-explanatory, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 3.3.1                    |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.3.1                               | Including icon identifier, icon shall be displayed in addition of the first alpha identifier            |
| 4    | ME → USER | ME only display alpha string: " Set up call Icon 3.3.1"            |   |
| 5    | USER → ME | The user confirms the set up call                                  | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456"                |   |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.                  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 3.3.1B   | [Command performed successfully, but requested icon could not be displayed].                            |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode. |   |

**TERMINAL RESPONSE: SET UP CALL 3.3.1B**

Logically:

Command details

- Command number: 1
- Command type: SET UP CALL
- Command qualifier: only if not currently busy on another call

Device identities

- Source device: ME
- Destination device: UICC

Result

- General Result: Command performed successfully, but requested icon could not be displayed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 3.4A (SET UP CALL, display of self explanatory basic icon during set up call, successful)**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 3.4.1  |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.4.1   | Including a second alpha identifier and two icons   |
| 4    | ME → USER | ME displays the basic icon during a user confirmation phase.   |   |
| 5    | USER → ME | The user confirms the set up call  | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456". The ME displays the basic icon without the text during the set up call. |   |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 3.4.1A   | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s. The ME returns in idle mode.  |   |

**PROACTIVE COMMAND: SET UP CALL 3.4.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Set up call Icon 3.4.1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"

Icon identifier

Icon qualifier: icon is self-explanatory  
 Icon identifier: <record 1 in EF IMG>

Alpha identifier: "Set up call Icon 3.4.2"

Icon identifier

Icon qualifier: icon is self-explanatory  
 Icon identifier: <record 1 in EF IMG>

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 4C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 16 | 53 | 65 | 74 | 20 | 75 | 70 | 20 | 63 | 61 | 6C | 6C |
|          | 20 | 49 | 63 | 6F | 6E | 20 | 33 | 2E | 34 | 2E | 31 | 86 |
|          | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 | 1C | 2C | 9E | 02 |
|          | 00 | 01 | 85 | 16 | 53 | 65 | 74 | 20 | 75 | 70 | 20 | 63 |
|          | 61 | 6C | 6C | 20 | 49 | 63 | 6F | 6E | 20 | 33 | 2E | 34 |
|          | 2E | 32 | 9E | 02 | 00 | 01 |    |    |    |    |    |    |

**TERMINAL RESPONSE: SET UP CALL 3.4.1A**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 3.4B (SET UP CALL, display of self explanatory basic icon during set up call, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 3.4.1  |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 3.4.1   | Including a second alpha identifier and two icons   |
| 4    | ME → USER | ME displays "Set up call Icon 3.4.1" without the icon  |   |
| 5    | USER → ME | The user confirms the set up call  | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456". The ME displays "Set up call Icon 3.4.2" without the icon during the set up call. |   |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 3.4.1B   | [Command performed successfully, but requested icon could not be displayed].                            |
| 9    | USER → ME | The user ends the call after 10 s. The ME returns in idle mode.  |   |

TERMINAL RESPONSE: SET UP CALL 3.4.1B

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully, but requested icon could not be displayed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|



#### 27.22.4.13.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1A to 3.4B.

#### 27.22.4.13.4 SET UP CALL (support of Text Attribute)

##### 27.22.4.13.4.1 SET UP CALL (support of Text Attribute – Left Alignment)

###### 27.22.4.13.4.1.1 Definition and applicability

See clause 3.2.2.

###### 27.22.4.13.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

###### 27.22.4.13.4.1.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the left alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

###### 27.22.4.13.4.1.4 Method of test

###### 27.22.4.13.4.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

## 27.22.4.13.4.1.4.2 Procedure

**Expected Sequence 4.1 (SET UP CALL, Text Attribute – Left Alignment)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.1.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.1.1   |   |
| 4    | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation is displayed with left alignment]  |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with left alignment]  |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]   |
| 8    | ME → UICC | TERMINAL RESPONSE 4.1.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 10   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.1.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.1.2   |   |
| 13   | ME → USER | ME displays "CONFIRMATION 2"<br>during the user confirmation phase                          |   |
| 14   | USER → ME | The user confirms the set up call   | [User confirmation shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/14, no alignment change will take place]       |
| 15   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 2"         | [Second alpha identifier shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/14, no alignment change will take place] |
| 16   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]   |
| 17   | ME → UICC | TERMINAL RESPONSE 4.1.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 18   | USER → ME | The user ends the call after 18 s.<br>The ME returns in idle mode.                          |   |

## PROACTIVE COMMAND: SET UP CALL 4.1.1

## Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 1"

## Address

TON: International

NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)  
 Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)  
 Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04             |
|          | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |    |                |

PROACTIVE COMMAND: SET UP CALL 4.1.2

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 2"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 |    |    |

TERMINAL RESPONSE: SET UP CALL 4.1.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.13.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

27.22.4.13.4.2 SET UP CALL (support of Text Attribute – Center Alignment)

27.22.4.13.4.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.2.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the center alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.2.4 Method of test

27.22.4.13.4.2.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

## 27.22.4.13.4.2.4.2 Procedure

**Expected Sequence 4.2 (SET UP CALL, Text Attribute – Center Alignment)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.2.1   |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.2.1   |  |
| 4    | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |  |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation is displayed with<br>center alignment]  |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>center alignment]  |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way]  |
| 8    | ME → UICC | TERMINAL RESPONSE 4.2.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]   |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |  |
| 10   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.2.2   |  |
| 11   | ME → UICC | FETCH   |  |
| 12   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.2.2   |  |
| 13   | ME → USER | ME displays "CONFIRMATION 2"<br>during the user confirmation phase                          |  |
| 14   | USER → ME | The user confirms the set up call   | [User confirmation shall be formatted<br>without center alignment. Remark: If<br>center alignment is the ME"s default<br>alignment as declared in table A.2/14, no<br>alignment change will take place]          |
| 15   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 2"         | [Second alpha identifier shall be<br>formatted without center alignment.<br>Remark: If center alignment is the ME"s<br>default alignment as declared in table<br>A.2/14, no alignment change will take<br>place] |
| 16   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way]  |
| 17   | ME → UICC | TERMINAL RESPONSE 4.2.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]   |
| 18   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |  |

## PROACTIVE COMMAND: SET UP CALL 4.2.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 1"

## Address

TON: International

NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)  
 Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)  
 Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04             |
|          | 00 | 0E | 01 | B4 | D0 | 04 | 00 | 06 | 01 | B4 |    |                |

PROACTIVE COMMAND: SET UP CALL 4.2.2

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 2"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 |    |    |

TERMINAL RESPONSE: SET UP CALL 4.2.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.13.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

27.22.4.13.4.3 SET UP CALL (support of Text Attribute – Right Alignment)

27.22.4.13.4.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.3.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the right alignment text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.3.4 Method of test

27.22.4.13.4.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

## 27.22.4.13.4.3.4.2 Procedure

**Expected Sequence 4.3 (SET UP CALL, Text Attribute – Right Alignment)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.3.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.3.1   |   |
| 4    | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation is displayed with right alignment]   |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with right alignment]   |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]   |
| 8    | ME → UICC | TERMINAL RESPONSE 4.3.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 10   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.3.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.3.2   |   |
| 13   | ME → USER | ME displays "CONFIRMATION 2"<br>during the user confirmation phase                          |   |
| 14   | USER → ME | The user confirms the set up call   | [User confirmation shall be formatted without right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/14, no alignment change will take place]       |
| 15   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 2"         | [Second alpha identifier shall be formatted without right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/14, no alignment change will take place] |
| 16   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]   |
| 17   | ME → UICC | TERMINAL RESPONSE 4.3.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 18   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |

## PROACTIVE COMMAND: SET UP CALL 4.3.1

## Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 1"

## Address

TON: International



NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)  
 Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)  
 Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04             |
|          | 00 | 0E | 02 | B4 | D0 | 04 | 00 | 06 | 02 | B4 |    |                |

PROACTIVE COMMAND: SET UP CALL 4.3.2

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 2"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 |    |    |

TERMINAL RESPONSE: SET UP CALL 4.3.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.13.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.13.4.4 SET UP CALL (support of Text Attribute – Large Font Size)

27.22.4.13.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.13.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

27.22.4.13.4.4.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the large font size text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

27.22.4.13.4.4.4 Method of test

27.22.4.13.4.4.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

## 27.22.4.13.4.4.2 Procedure

**Expected Sequence 4.4 (SET UP CALL, Text Attribute – Large Font Size)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.4.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.4.1   |   |
| 4    | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation is displayed with large<br>font size]  |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>large font size]  |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 4.4.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 10   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.4.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.4.2   |   |
| 13   | ME → USER | ME displays "CONFIRMATION 2"<br>during the user confirmation phase                          |   |
| 14   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with<br>normal font size]   |
| 15   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 2"         | [second alpha identifier is displayed with<br>normal font size]   |
| 16   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 17   | ME → UICC | TERMINAL RESPONSE 4.4.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 18   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.4.1   |   |
| 20   | ME → UICC | FETCH   |   |
| 21   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.4.1   |   |
| 22   | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 23   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with large<br>font size]  |
| 24   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>large font size]  |
| 25   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 26   | ME → UICC | TERMINAL RESPONSE 4.4.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 27   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 28   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.4.3   |   |
| 29   | ME → UICC | FETCH   |   |

|    |           |  |   |
|----|-----------|--|---|
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.4.3   |   |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase                          |   |
| 32 | USER → ME | The user confirms the set up call  | [user confirmation is displayed with normal font size]  |
| 33 | ME → USS  | The ME attempts to set up a call to "+012340123456".<br>The ME displays "CALL 3"         | [second alpha identifier is displayed with normal font size]  |
| 34 | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.4.1<br>The ME shall not update EF LND with the called party address. | [Command performed successfully]  |
| 36 | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                       |   |

PROACTIVE COMMAND: SET UP CALL 4.4.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04             |
|          | 00 | 0E | 04 | B4 | D0 | 04 | 00 | 06 | 04 | B4 |    |                |

PROACTIVE COMMAND: SET UP CALL 4.4.2

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 2"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)  
 Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)  
 Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04             |
|          | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |    |                |

#### PROACTIVE COMMAND: SET UP CALL 4.4.3

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 3"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |    |    |

#### TERMINAL RESPONSE: SET UP CALL 4.4.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.13.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

#### 27.22.4.13.4.5 SET UP CALL (support of Text Attribute – Small Font Size)

##### 27.22.4.13.4.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.13.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

##### 27.22.4.13.4.5.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the small font size text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

##### 27.22.4.13.4.4.5 Method of test

##### 27.22.4.13.4.4.5.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

## 27.22.4.13.4.4.5.2 Procedure

**Expected Sequence 4.5 (SET UP CALL, Text Attribute – Small Font Size)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.5.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.5.1   |   |
| 4    | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation is displayed with small<br>font size]  |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>small font size]  |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 4.5.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 10   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.5.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.5.2   |   |
| 13   | ME → USER | ME displays "CONFIRMATION 2"<br>during the user confirmation phase                          |   |
| 14   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with<br>normal font size]   |
| 15   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 2"         | [second alpha identifier is displayed with<br>normal font size]   |
| 16   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 17   | ME → UICC | TERMINAL RESPONSE 4.5.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 18   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.5.1   |   |
| 20   | ME → UICC | FETCH   |   |
| 21   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.5.1   |   |
| 22   | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 23   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with small<br>font size]  |
| 24   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>small font size]  |
| 25   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 26   | ME → UICC | TERMINAL RESPONSE 4.5.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 27   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 28   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.5.3   |   |
| 29   | ME → UICC | FETCH   |   |

|    |           |  |   |
|----|-----------|--|---|
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.5.3   |   |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase                          |   |
| 32 | USER → ME | The user confirms the set up call  | [user confirmation is displayed with normal font size]  |
| 33 | ME → USS  | The ME attempts to set up a call to "+012340123456".<br>The ME displays "CALL 3"         | [second alpha identifier is displayed with normal font size]  |
| 34 | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.5.1<br>The ME shall not update EF LND with the called party address. | [Command performed successfully]  |
| 36 | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                       |   |

## PROACTIVE COMMAND: SET UP CALL 4.5.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 1"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 1"

## Text Attribute (user confirmation phase)

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Text Attribute (call set up phase)

Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04             |
|          | 00 | 0E | 08 | B4 | D0 | 04 | 00 | 06 | 08 | B4 |    |                |

## PROACTIVE COMMAND: SET UP CALL 4.5.2

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL



Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 2"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)  
 Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)  
 Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04             |
|          | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |    |                |

#### PROACTIVE COMMAND: SET UP CALL 4.5.3

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 3"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |    |    |

#### TERMINAL RESPONSE: SET UP CALL 4.5.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.13.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

#### 27.22.4.13.4.6 SET UP CALL (support of Text Attribute – Bold On)

##### 27.22.4.13.4.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.13.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

##### 27.22.4.13.4.6.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the bold text attribute configuration to the user, attempts to set up a call to the address and returns the result in the **TERMINAL RESPONSE**.

##### 27.22.4.13.4.6.4 Method of test

###### 27.22.4.13.4.6.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the **PROFILE DOWNLOAD** procedure and in the updated idle mode on the USS.

## 27.22.4.13.4.6.4.2 Procedure

**Expected Sequence 4.6 (SET UP CALL, Text Attribute – Bold On)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.6.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.6.1   |   |
| 4    | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation is displayed with bold<br>on]  |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>bold on]  |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 4.6.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 10   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.6.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.6.2   |   |
| 13   | ME → USER | ME displays "CONFIRMATION 2"<br>during the user confirmation phase                          |   |
| 14   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with bold<br>off]   |
| 15   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 2"         | [second alpha identifier is displayed with<br>bold off]   |
| 16   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 17   | ME → UICC | TERMINAL RESPONSE 4.6.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 18   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.6.1   |   |
| 20   | ME → UICC | FETCH   |   |
| 21   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.6.1   |   |
| 22   | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 23   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with bold<br>on]  |
| 24   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>bold on]  |
| 25   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 26   | ME → UICC | TERMINAL RESPONSE 4.6.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 27   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 28   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.6.3   |   |
| 29   | ME → UICC | FETCH   |   |

|    |           |  |   |
|----|-----------|--|---|
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.6.3   |   |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase                          |   |
| 32 | USER → ME | The user confirms the set up call  | [user confirmation is displayed with bold off]  |
| 33 | ME → USS  | The ME attempts to set up a call to "+012340123456".<br>The ME displays "CALL 3"         | [second alpha identifier is displayed with bold off]  |
| 34 | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.6.1<br>The ME shall not update EF LND with the called party address. | [Command performed successfully]  |
| 36 | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                       |   |

## PROACTIVE COMMAND: SET UP CALL 4.6.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 1"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 1"

## Text Attribute (user confirmation phase)

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

## Text Attribute (call set up phase)

Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04             |
|          | 00 | 0E | 10 | B4 | D0 | 04 | 00 | 06 | 10 | B4 |    |                |

## PROACTIVE COMMAND: SET UP CALL 4.6.2

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 2"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)  
 Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)  
 Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04             |
|          | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |    |                |

#### PROACTIVE COMMAND: SET UP CALL 4.6.3

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 3"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |    |    |

#### TERMINAL RESPONSE: SET UP CALL 4.6.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.13.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

#### 27.22.4.13.4.7 SET UP CALL (support of Text Attribute – Italic On)

##### 27.22.4.13.4.7.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.13.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

##### 27.22.4.13.4.7.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the italic text attribute configuration to the user, attempts to set up a call to the address and returns the result in the **TERMINAL RESPONSE**.

##### 27.22.4.13.4.7.4 Method of test

###### 27.22.4.13.4.7.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

## 27.22.4.13.4.7.4.2 Procedure

**Expected Sequence 4.7 (SET UP CALL, Text Attribute – *Italic On*)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.7.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.7.1   |   |
| 4    | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation is displayed with italic<br>on]  |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>italic on]  |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 4.7.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 10   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.7.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.7.2   |   |
| 13   | ME → USER | ME displays "CONFIRMATION 2"<br>during the user confirmation phase                          |   |
| 14   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with italic<br>off]   |
| 15   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 2"         | [second alpha identifier is displayed with<br>italic off]   |
| 16   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 17   | ME → UICC | TERMINAL RESPONSE 4.7.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 18   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.7.1   |   |
| 20   | ME → UICC | FETCH   |   |
| 21   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.7.1   |   |
| 22   | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 23   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with italic<br>on]  |
| 24   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>italic on]  |
| 25   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 26   | ME → UICC | TERMINAL RESPONSE 4.7.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 27   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 28   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.7.3   |   |
| 29   | ME → UICC | FETCH   |   |

|    |           |  |   |
|----|-----------|--|---|
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.7.3   |   |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase                          |   |
| 32 | USER → ME | The user confirms the set up call  | [user confirmation is displayed with italic off]  |
| 33 | ME → USS  | The ME attempts to set up a call to "+012340123456".<br>The ME displays "CALL 3"         | [second alpha identifier is displayed with italic off]  |
| 34 | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.7.1<br>The ME shall not update EF LND with the called party address. | [Command performed successfully]  |
| 36 | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                       |   |

PROACTIVE COMMAND: SET UP CALL 4.7.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|          | 00 | 0E | 20 | B4 | D0 | 04 | 00 | 06 | 20 | B4 |    |    |

PROACTIVE COMMAND: SET UP CALL 4.7.2

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL



Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 2"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)  
 Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)  
 Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04             |
|          | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |    |                |

#### PROACTIVE COMMAND: SET UP CALL 4.7.3

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 3"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |    |    |

#### TERMINAL RESPONSE: SET UP CALL 4.7.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.13.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

#### 27.22.4.13.4.8 SET UP CALL (support of Text Attribute – Underline On)

##### 27.22.4.13.4.8.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.13.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

##### 27.22.4.13.4.8.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the underline text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

##### 27.22.4.13.4.8.4 Method of test

###### 27.22.4.13.4.8.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

## 27.22.4.13.4.8.4.2 Procedure

**Expected Sequence 4.8 (SET UP CALL, Text Attribute – Underline On)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.8.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.8.1   |   |
| 4    | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation is displayed with<br>underline on]   |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>underline on]   |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 4.8.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 10   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.8.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.8.2   |   |
| 13   | ME → USER | ME displays "CONFIRMATION 2"<br>during the user confirmation phase                          |   |
| 14   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with<br>underline off]  |
| 15   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 2"         | [second alpha identifier is displayed with<br>underline off]  |
| 16   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 17   | ME → UICC | TERMINAL RESPONSE 4.8.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 18   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.8.1   |   |
| 20   | ME → UICC | FETCH   |   |
| 21   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.8.1   |   |
| 22   | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 23   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with<br>underline on]   |
| 24   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>underline on]   |
| 25   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 26   | ME → UICC | TERMINAL RESPONSE 4.8.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 27   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 28   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.8.3   |   |
| 29   | ME → UICC | FETCH   |   |

|    |           |  |   |
|----|-----------|--|---|
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.8.3   |   |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase                          |   |
| 32 | USER → ME | The user confirms the set up call  | [user confirmation is displayed with underline off]   |
| 33 | ME → USS  | The ME attempts to set up a call to "+012340123456".<br>The ME displays "CALL 3"         | [second alpha identifier is displayed with Undeline off]  |
| 34 | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.8.1<br>The ME shall not update EF LND with the called party address. | [Command performed successfully]  |
| 36 | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                       |   |

PROACTIVE COMMAND: SET UP CALL 4.8.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04 |
|          | 00 | 0E | 40 | B4 | D0 | 04 | 00 | 06 | 40 | B4 |    |    |

PROACTIVE COMMAND: SET UP CALL 4.8.2

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 2"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)  
 Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)  
 Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04             |
|          | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |    |                |

#### PROACTIVE COMMAND: SET UP CALL 4.8.3

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 3"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |    |    |

#### TERMINAL RESPONSE: SET UP CALL 4.8.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.13.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

#### 27.22.4.13.4.9 SET UP CALL (support of Text Attribute – Strikethrough On)

##### 27.22.4.13.4.9.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.13.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

##### 27.22.4.13.4.9.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the strikethrough text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

##### 27.22.4.13.4.9.4 Method of test

###### 27.22.4.13.4.9.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

## 27.22.4.13.4.9.4.2 Procedure

**Expected Sequence 4.9 (SET UP CALL, Text Attribute – Strikethrough On)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.9.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.9.1   |   |
| 4    | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation is displayed with<br>strikethrough on]   |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>strikethrough on]   |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 8    | ME → UICC | TERMINAL RESPONSE 4.9.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 10   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.9.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.9.2   |   |
| 13   | ME → USER | ME displays "CONFIRMATION 2"<br>during the user confirmation phase                          |   |
| 14   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with<br>strikethrough off]  |
| 15   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 2"         | [second alpha identifier is displayed with<br>strikethrough off]  |
| 16   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 17   | ME → UICC | TERMINAL RESPONSE 4.9.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 18   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.9.1   |   |
| 20   | ME → UICC | FETCH   |   |
| 21   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.9.1   |   |
| 22   | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                          |   |
| 23   | USER → ME | The user confirms the set up call   | [user confirmation is displayed with<br>strikethrough on]   |
| 24   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "CALL 1"         | [second alpha identifier is displayed with<br>strikethrough on]   |
| 25   | USS → ME  | The ME receives the CONNECT<br>message from the USS.  | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way] |
| 26   | ME → UICC | TERMINAL RESPONSE 4.9.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 27   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                          |   |
| 28   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.9.3   |   |
| 29   | ME → UICC | FETCH   |   |

|    |           |  |   |
|----|-----------|--|---|
| 30 | UICC → ME | PROACTIVE COMMAND: SET UP CALL 4.9.3   |   |
| 31 | ME → USER | ME displays "CONFIRMATION 3" during the user confirmation phase                          |   |
| 32 | USER → ME | The user confirms the set up call  | [user confirmation is displayed with strikethrough off]   |
| 33 | ME → USS  | The ME attempts to set up a call to "+012340123456".<br>The ME displays "CALL 3"         | [second alpha identifier is displayed with strikethrough off]   |
| 34 | USS → ME  | The ME receives the CONNECT message from the USS.  | [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] |
| 35 | ME → UICC | TERMINAL RESPONSE 4.9.1<br>The ME shall not update EF LND with the called party address. | [Command performed successfully]  |
| 36 | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                       |   |

## PROACTIVE COMMAND: SET UP CALL 4.9.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 1"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 1"

## Text Attribute (user confirmation phase)

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On  
 Colour: Dark Green Foreground, Bright Yellow Background

## Text Attribute (call set up phase)

Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04             |
|          | 00 | 0E | 80 | B4 | D0 | 04 | 00 | 06 | 80 | B4 |    |                |

## PROACTIVE COMMAND: SET UP CALL 4.9.2

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL



Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 2"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 2"

Text Attribute (user confirmation phase)  
 Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)  
 Formatting position: 0  
 Formatting length: 6  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 | D0 | 04             |
|          | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | B4 |    |                |

#### PROACTIVE COMMAND: SET UP CALL 4.9.3

Logically:

Command details  
 Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities  
 Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 3"

Address  
 TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 33 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 33 |    |    |

#### TERMINAL RESPONSE: SET UP CALL 4.9.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.13.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

#### 27.22.4.13.4.10 SET UP CALL (support of Text Attribute – Foreground and Background Colour)

##### 27.22.4.13.4.10.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.13.4.10.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3, clause 8.70 and clause 5.2.

##### 27.22.4.13.4.10.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier according to the foreground and background colour text attribute configuration to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

##### 27.22.4.13.4.10.4 Method of test

###### 27.22.4.13.4.10.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and in the updated idle mode on the USS.

## 27.22.4.13.4.10.4.2 Procedure

**Expected Sequence 4.10 (SET UP CALL, Text Attribute – Foreground and Background Colour)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.10.1   |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.10.1   |  |
| 4    | ME → USER | ME displays "CONFIRMATION 1"<br>during the user confirmation phase                           |  |
| 5    | USER → ME | The user confirms the set up call  | [user confirmation is displayed with<br>foreground and background colour<br>according to Text Attribute configuration]       |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".                                      | [second alpha identifier is displayed with<br>foreground and background colour<br>according to Text Attribute configuration] |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.   | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way]                |
| 8    | ME → UICC | TERMINAL RESPONSE 4.10.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]   |
| 9    | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                           |  |
| 10   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 4.10.2   |  |
| 11   | ME → UICC | FETCH  |  |
| 12   | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 4.10.2   |  |
| 13   | ME → USER | ME displays "CONFIRMATION 2"<br>during the user confirmation phase                           |  |
| 14   | USER → ME | The user confirms the set up call  | [user confirmation is displayed with ME's<br>default foreground and background<br>colour]                                    |
| 15   | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".                                      | [second alpha identifier is displayed with<br>ME's default foreground and<br>background colour]                              |
| 16   | USS → ME  | The ME receives the CONNECT<br>message from the USS.   | [The USS also has to handle the START<br>DTMF and STOP DTMF messages sent<br>by the ME in an appropriate way]                |
| 17   | ME → UICC | TERMINAL RESPONSE 4.10.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]   |
| 18   | USER → ME | The user ends the call after 10 s.<br>The ME returns in idle mode.                           |  |

## PROACTIVE COMMAND: SET UP CALL 4.10.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "CONFIRMATION 1"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456p1p2"  
 Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0

Formatting length: 14

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0

Formatting length: 6

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Bright Yellow Foreground, Dark Green Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |                |
|----------|----|----|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 38 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85             |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | <sup>4</sup> F |
|          | 4E | 20 | 31 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65             |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 31 | D0 | 04             |
|          | 00 | 0E | 00 | B4 | D0 | 04 | 00 | 06 | 00 | 4B |    |                |

PROACTIVE COMMAND: SET UP CALL 4.10.2

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC

Destination device: Network

Alpha identifier: "CONFIRMATION 2"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string: "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0E | 43 | 4F | 4E | 46 | 49 | 52 | 4D | 41 | 54 | 49 | 4F |
|          | 4E | 20 | 32 | 86 | 09 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |
|          | 1C | 2C | 85 | 06 | 43 | 41 | 4C | 4C | 20 | 32 |    |    |

TERMINAL RESPONSE: SET UP CALL 4.10.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.13.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

#### 27.22.4.13.5 SET UP CALL (UCS2 Display in **Cyrillic**)

##### 27.22.4.13.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.13.5.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

##### 27.22.4.13.5.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

##### 27.22.4.13.5.4 Method of test

###### 27.22.4.13.5.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.13.5.4.2 Procedure

**Expected Sequence 5.1 (SET UP CALL with UCS2 – Cyrillic Characters, call confirmed by the user and connected)**

| Step | Direction | MESSAGE / Action   | Comments                             |
|------|-----------|--|--------------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 5.1.1   |                                      |
| 2    | ME → UICC | FETCH  |                                      |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 5.1.1   |                                      |
| 4    | ME → USER | ME displays "ЗДРАВСТВУЙТЕ" during user confirmation phase.                               | ["ЗДРАВСТВУЙТЕ": 'Hello' in Russian] |
| 5    | USER → ME | The user confirms the call set up  | [user confirmation]                  |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456"                                      |                                      |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.  |                                      |
| 8    | ME → UICC | TERMINAL RESPONSE 5.1.1<br>The ME shall not update EF LND with the called party address. | [Command performed successfully]     |
| 9    | USER → ME | The user ends the call after 5 s.<br>The ME returns to idle mode.                        |                                      |

## PROACTIVE COMMAND: SET UP CALL 5.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "ЗДРАВСТВУЙТЕ"

## Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2D | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 19 | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 |
|          | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 |
|          | 04 | 15 | 86 | 07 | 91 | 10 | 32 | 04 | 21 | 43 | 65 |    |

## TERMINAL RESPONSE: SET UP CALL 5.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 5.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Cyrillic Characters)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 5.2.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 5.2.1   |   |
| 4    | ME → USER | ME displays "ЗДРАВСТВУЙТЕ1" during<br>the user confirmation phase                           | ['ЗДРАВСТВУЙТЕ1' : 'Hello1' in<br>Russian]                              |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation]   |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "ЗДРАВСТВУЙТЕ2"  | [second alpha identifier]<br>['ЗДРАВСТВУЙТЕ2' : 'Hello2' in<br>Russian] |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  |   |
| 8    | ME → UICC | TERMINAL RESPONSE 5.2.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]  |
| 9    | USER → ME | The user ends the call after 5 s.<br>The ME returns in idle mode.                           |   |

**PROACTIVE COMMAND: SET UP CALL 5.2.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "ЗДРАВСТВУЙТЕ1"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456"

Alpha Identifier (call set up phase): "ЗДРАВСТВУЙТЕ2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 4C | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 1B | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 |
|          | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 |
|          | 04 | 15 | 00 | 31 | 86 | 07 | 91 | 10 | 32 | 04 | 21 | 43 |
|          | 65 | 85 | 1B | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 |
|          | 04 | 12 | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 |
|          | 04 | 22 | 04 | 15 | 00 | 32 |    |    |    |    |    |    |

**TERMINAL RESPONSE: SET UP CALL 5.2.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## 27.22.4.13.5.5 Test requirement

The ME shall operate in the manner defined in expected sequences 5.1 to 5.2.

## 27.22.4.13.6 SET UP CALL (UCS2 Display in Chinese)

## 27.22.4.13.6.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.13.6.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in:

- ISO/IEC 10646 [17].

## 27.22.4.13.6.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

## 27.22.4.13.6.4 Method of test

## 27.22.4.13.6.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.



27.22.4.13.6.4.2 Procedure

**Expected Sequence 6.1 (SET UP CALL with UCS2 – Chinese characters, call confirmed by the user and connected)**

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 6.1.1   |                                  |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 6.1.1   |                                  |
| 4    | ME → USER | ME displays "不忙" during user confirmation phase.   | ['不忙': 'Not Busy' in Chinese]    |
| 5    | USER → ME | The user confirms the call set up  | [user confirmation]              |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456"                                      |                                  |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.  |                                  |
| 8    | ME → UICC | TERMINAL RESPONSE 6.1.1<br>The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9    | USER → ME | The user ends the call after 5 s.<br>The ME returns to idle mode.                        |                                  |

PROACTIVE COMMAND: SET UP CALL 6.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "不忙"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 19 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 05 | 80 | 4E | 0D | 5F | D9 | 86 | 07 | 91 | 10 | 32 | 04 |
|          | 21 | 43 | 65 |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP CALL 6.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 6.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Chinese characters)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 6.2.1   |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 6.2.1   |  |
| 4    | ME → USER | ME displays "确定" during the user<br>confirmation phase                                      | ['确定' : 'Confirmation' in Chinese]                       |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation]                                      |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "打电话"            | [second alpha identifier]<br>['打电话' : 'CALL' in Chinese] |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  |  |
| 8    | ME → UICC | TERMINAL RESPONSE 6.2.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]                         |
| 9    | USER → ME | The user ends the call after 5 s.<br>The ME returns in idle mode.                           |  |

**PROACTIVE COMMAND: SET UP CALL 6.2.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "确定"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456"

Alpha Identifier (call set up phase): "打电话"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 05 | 80 | 78 | 6E | 5B | 9A | 86 | 07 | 91 | 10 | 32 | 04 |
|          | 21 | 43 | 65 | 85 | 07 | 80 | 62 | 53 | 75 | 35 | 8B | DD |

**TERMINAL RESPONSE: SET UP CALL 6.2.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.13.6.5 Test requirement

The ME shall operate in the manner defined in expected sequences 6.1 to 6.2.

#### 27.22.4.13.7 SET UP CALL (UCS2 Display in Katakana)

##### 27.22.4.13.7.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.13.7.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Call facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.13, clause 6.6.12, clause 8.6, clause 8.7, clause 8.12, clause 8.12.3 and clause 5.2.

The ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in:

- ISO/IEC 10646 [17].

##### 27.22.4.13.7.3 Test purpose

To verify that the ME accepts the Proactive Command - Set Up Call, displays the alpha identifier with UCS2 coding to the user, attempts to set up a call to the address and returns the result in the TERMINAL RESPONSE.

##### 27.22.4.13.7.4 Method of test

###### 27.22.4.13.7.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.13.7.4.2 Procedure

**Expected Sequence 7.1 (SET UP CALL with UCS2 – Katakana characters, call confirmed by the user and connected)**

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP CALL 7.1.1   |                                  |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 7.1.1   |                                  |
| 4    | ME → USER | ME displays "ル" during user confirmation phase.  | [Character in Katakana]          |
| 5    | USER → ME | The user confirms the call set up  | [user confirmation]              |
| 6    | ME → USS  | The ME attempts to set up a call to "+012340123456"                                      |                                  |
| 7    | USS → ME  | The ME receives the CONNECT message from the USS.  |                                  |
| 8    | ME → UICC | TERMINAL RESPONSE 7.1.1<br>The ME shall not update EF LND with the called party address. | [Command performed successfully] |
| 9    | USER → ME | The user ends the call after 5 s.<br>The ME returns to idle mode.                        |                                  |

PROACTIVE COMMAND: SET UP CALL 7.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier:

"ル"

Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string "012340123456"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 17 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 03 | 80 | 30 | EB | 86 | 07 | 91 | 10 | 32 | 04 | 21 | 43 |
|          | 65 |    |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP CALL 7.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

### Expected Sequence 7.2 (SET UP CALL, two alpha identifiers coded in UCS2 – Katakana characters)

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP CALL 7.2.1   |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>CALL 7.2.1   |  |
| 4    | ME → USER | ME displays "ル1" during the user<br>confirmation phase                                      | [Character in Katakana]                              |
| 5    | USER → ME | The user confirms the set up call   | [user confirmation]                                  |
| 6    | ME → USS  | The ME attempts to set up a call to<br>"+012340123456".<br>The ME displays "ル2".            | [second alpha identifier]<br>[Character in Katakana] |
| 7    | USS → ME  | The ME receives the CONNECT<br>message from the USS.  |  |
| 8    | ME → UICC | TERMINAL RESPONSE 7.2.1<br>The ME shall not update EF LND with<br>the called party address. | [Command performed successfully]                     |
| 9    | USER → ME | The user ends the call after 5 s.<br>The ME returns in idle mode.                           |  |

#### PROACTIVE COMMAND: SET UP CALL 7.2.1

Logically:

##### Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

##### Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "ル1"

##### Address

TON: International  
 NPI: ISDN / telephone numbering plan  
 Dialling number string: "012340123456"

Alpha Identifier (call set up phase): "ル2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 05 | 80 | 30 | EB | 00 | 31 | 86 | 07 | 91 | 10 | 32 | 04 |
|          | 21 | 43 | 65 | 85 | 05 | 80 | 30 | EB | 00 | 32 |    |    |

#### TERMINAL RESPONSE: SET UP CALL 7.2.1

Logically:

##### Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: only if not currently busy on another call

##### Device identities

Source device: ME  
 Destination device: UICC

##### Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.13.7.5 Test requirement

The ME shall operate in the manner defined in expected sequences 7.1 to 7.2.

### 27.22.4.14 POLLING OFF

#### 27.22.4.14.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.14.2 Conformance requirement

The ME shall support the POLLING OFF as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.14, clause 6.6.14, clause 6.8, clause 6.11, clause 8.6 and clause 8.7.

#### 27.22.4.14.3 Test purpose

To verify that the ME cancels the effect of any previous POLL INTERVAL commands and does not effect UICC presence detection.

#### 27.22.4.14.4 Method of test

##### 27.22.4.14.4.1 Initial conditions

For sequence 1.1:

- The elementary files are coded as Toolkit default.
- The ME is connected to the USIM Simulator and to the USS.

For sequence 1.2:

- The default E-UTRAN/EPC UICC, the default E-UTRAN parameters are used.
- The ME is connected to the USIM Simulator and to the E-USS.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

## 27.22.4.14.4.2 Procedure

**Expected Sequence 1.1 (POLLING OFF)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: POLL INTERVAL<br>1.1.1   |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>POLL INTERVAL 1.1.1  | Interval = 1 min   |
| 4    | ME → UICC | TERMINAL RESPONSE: POLL<br>INTERVAL 1.1.1 A or<br>TERMINAL RESPONSE: POLL<br>INTERVAL 1.1.1B | [command performed successfully, duration<br>depends on the ME's capabilities] |
| 5    | UICC → ME | PROACTIVE COMMAND<br>PENDING: POLLING OFF<br>1.1.2   |  |
| 6    | ME → UICC | FETCH  |  |
| 7    | UICC → ME | PROACTIVE COMMAND:<br>POLLING OFF 1.1.2  |  |
| 8    | ME → UICC | TERMINAL RESPONSE:<br>POLLING OFF 1.1.2  | [command performed successfully]   |
| 9    | USER → ME | Call to be set up  |  |
| 10   | ME → UICC | Periods of inactivity on the<br>UICC-ME interfaces shall not<br>exceed 30 seconds            |  |
| 11   | USER → ME | Call to be terminated 3 minutes<br>after call setup  |  |

## PROACTIVE COMMAND: POLL INTERVAL 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: POLL INTERVAL  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: ME

## Duration

Time unit: Minutes  
 Time interval: 1

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0D | 81 | 03 | 01 | 03 | 00 | 82 | 02 | 81 | 82 | 84 |
|          | 02 | 00 | 01 |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: POLL INTERVAL 1.1.1A

Logically:

## Command details

Command number: 1  
 Command type: POLL INTERVAL  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Duration

Time unit: Minutes  
Time interval: 1

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 03 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 84 | 02 | 00 | 01 |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: POLL INTERVAL 1.1.1B

## Logically:

## Command details

Command number: 1  
Command type: POLL INTERVAL  
Command qualifier: "00"

## Device identities

Source device: ME  
Destination device: UICC

## Result

General Result: Command performed successfully

## Duration

Time unit: Seconds  
Time interval: 60

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 03 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 84 | 02 | 01 | 3C |    |    |    |    |    |    |    |    |

Note: If the requested poll interval is not supported by the ME, the ME is allowed to use a different one as stated in TS 31.111 [15], subclause 6.4.6.

## PROACTIVE COMMAND: POLLING OFF 1.1.2

## Logically:

## Command details

Command number: 1  
Command type: POLLING OFF  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: ME

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 04 | 00 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

## TERMINAL RESPONSE: POLLING OFF 1.1.2

## Logically:

## Command details

Command number: 1  
Command type: POLLING OFF  
Command qualifier: "00"

## Device identities

Source device: ME  
Destination device: UICC



## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 04 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.2 (POLLING OFF, E-UTRAN)**

| Step | Direction  | MESSAGE / Action   | Comments  |
|------|------------|--|---|
| 1    | ME → E-USS | The UE successfully performs EPS bearer context activation                             |   |
| 2    | UICC → ME  | PROACTIVE COMMAND<br>PENDING: POLL INTERVAL 1.1.1                                      |   |
| 3    | ME → UICC  | FETCH  |   |
| 4    | UICC → ME  | PROACTIVE COMMAND:<br>POLL INTERVAL 1.1.1  | Interval = 1 min  |
| 5    | ME → UICC  | TERMINAL RESPONSE: POLL INTERVAL 1.1.1 A or<br>TERMINAL RESPONSE: POLL INTERVAL 1.1.1B | [command performed successfully, duration depends on the ME's capabilities] |
| 6    | UICC → ME  | PROACTIVE COMMAND<br>PENDING: POLLING OFF 1.1.2  |   |
| 7    | ME → UICC  | FETCH  |   |
| 8    | UICC → ME  | PROACTIVE COMMAND:<br>POLLING OFF 1.1.2  |   |
| 9    | ME → UICC  | TERMINAL RESPONSE:<br>POLLING OFF 1.1.2  | [command performed successfully]  |
| 10   | ME → UICC  | Periods of inactivity on the UICC-ME interface shall not exceed 30 seconds             |   |

**27.22.4.14.5 Test requirement**

The ME shall operate in the manner defined in expected sequences 1.1 - 1.2.

**27.22.4.15 PROVIDE LOCAL INFORMATION****27.22.4.15.1 Definition and applicability**

See clause 3.2.2.

**27.22.4.15.2 Conformance requirement**

The ME shall support the PROVIDE LOCAL INFORMATION facility as defined in:

- TS 31.111 [15] clause 6.4.15.

**27.22.4.15.3 Test purpose**

To verify that the ME returns the following requested local information within a TERMINAL RESPONSE:

- location information:
  - Mobile Country Code (MCC);
  - Mobile Network Code (MNC);
  - Location Area Code (LAC); and

- cell ID of the current serving cell;
- the IMEI of the ME;
- the Network Measurement Results and the BCCH channel list;
- the current date, time and time zone;
- the current ME language setting;
- the Timing Advance;
- the Access Technology;
- the IMEISV
- the Search Mode change
- the Battery charge State
- the UTRAN intra- and inter-frequency measurements,
- the E-UTRAN intra- and inter-frequency measurements.
- The CSG ID list and corresponding HNB names of surrounding CSG cells (if class "q" is supported).

if the local information is stored in the ME; otherwise, sends the correct error code to the UICC in the TERMINAL RESPONSE.

To verify that the ME returns required error information in the TERMINAL RESPONSE in case requested information cannot be provided due to missing network coverage.

#### 27.22.4.15.4 Method of tests

##### 27.22.4.15.4.1 Initial conditions

The ME is connected to the USIM Simulator.

Except for sequences 1.2, 1.4, 1.5, 1.9, 1.10 and 1.11 the ME is connected to the USS and has performed the location update procedure.

The E- UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Tracking Area Code (TAC) = 0001;
- E-UTRAN Cell Identity value = 0001 (28 bits);

The UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;

The GERAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;

- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;
- Timing advance = 0;
- Neighbour allocations = 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;
- Timing advance = 0;
- Neighbour allocations = 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585.

The elementary files are coded as the USIM Application Toolkit default with the exception that for sequences 1.14 to 1.18, the default E-UTRAN/EPC UICC is used.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Expected sequence 1.3 and 1.6 shall be used on a USS setting up only a GERAN or PCS 1900 cell and expected sequences 1.7 and 1.12 shall be used on a USS setting up only a UTRAN cell.

Expected sequence 1.12 requires 2 UTRA cells on the same frequency and 1.13 requires 2 UTRA cells on different frequencies.

Expected sequences 1.14 and 1.17 shall be used on a E-USS setting up only a E-UTRAN cell.

Expected sequence 1.15 requires 2 E-UTRA cells on the same frequency and 1.16 requires 2 E-UTRA cells on different frequencies.

To verify that the E-UTRAN cell identifier is correctly transmitted when requesting the location information while accessing an E-UTRAN.

Expected sequence 1.18 requires 2 E-UTRAN cells configured in CSG mode.

For sequence 1.18 the default E-UTRAN/EPC UICC is used and the E-USS transmits on 2 cells with the following parameters:

Network parameters for cell 1:

- TAI (MCC/MNC/TAC): 001/01/0001.
- Access control: unrestricted.
- csg-Indication: TRUE
- csg-Identity: 01 (27 bits)
- Home (e)NB Name Home ONE

Network parameters for cell 2:

- TAI (MCC/MNC/TAC): 001/01/0002.
- Access control: unrestricted.
- csg-Indication: TRUE

- csg-Identity: 02 (27 bits)
- Home (e)NB Name Home TWO

## 27.22.4.15.4.2 Procedure

**Expected Sequence 1.1 (PROVIDE LOCAL INFORMATION, Local Info (MCC, MNC, LAC & Cell ID))**

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL<br>INFORMATION 1.1.1  |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL INFORMATION<br>1.1.1   |   |
| 4    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION<br>1.1.1A<br>or<br>TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION<br>1.1.1B | [Command performed successfully, MCC MNC LAC<br>and Cell Identity as USS, option A shall apply for<br>3GPP parameters]<br>[Command performed successfully, MCC MNC LAC<br>and Cell Identity as USS, option B shall apply for<br>PCS1900 parameters] |

## PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "00" Location information (MCC MNC LAC and Cell Identity)

## Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 00 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

## TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1A

Logically:

## Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "00" Location information (MCC MNC LAC and Cell Identity)

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Location Information  
 MCC & MNC: MCC = 001, MNC = 01  
 Location Area Code: 0001  
 Cell Identity Value: 0001  
 Extended Cell Identity Value: RNC-id value (for Rel-4 onwards), see also Note 2

Coding:

|          |    |        |    |    |    |    |    |    |    |        |    |    |
|----------|----|--------|----|----|----|----|----|----|----|--------|----|----|
| BER-TLV: | 81 | 03     | 01 | 26 | 00 | 82 | 02 | 82 | 81 | 83     | 01 | 00 |
|          | 93 | Note 1 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 2 |    |    |

Note 1: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 2: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

#### TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.1.1B

Logically:

##### Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "00" Location information (MCC MNC LAC and Cell Identity)

##### Device identities

Source device: ME  
 Destination device: UICC

##### Result

General Result: Command performed successfully  
 Location Information  
 MCC & MNC: MCC = 001, MNC = 011  
 Location Area Code: 0001  
 Cell Identity Value: 0001

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 93 | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 |    |    |    |

#### Expected Sequence 1.2 (PROVIDE LOCAL INFORMATION, IMEI of the ME)

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL<br>INFORMATION 1.2.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL INFORMATION<br>1.2.1        |  |
| 4    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION<br>1.2.1        | [Command performed successfully, IMEI<br>as declared in A.2/23, coded according to<br>TS 24.008 [10], clause 10.5.1, but spare<br>digit shall be zero when transmitted by the<br>ME] |

#### PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

##### Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "01" IMEI of the ME

##### Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 01 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

### TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

#### Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "01" IMEI of the ME

#### Device identities

Source device: ME  
 Destination device: UICC

#### Result

General Result: Command performed successfully

#### IMEI

IMEI of the ME: The IMEI of the ME

The result coding depends on the Mobile IMEI value as declared in table A.2/23.

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 94 | 08 | XX | XX | XX | XX | XX | XX | XX | XX |    |    |

As an example, if the IMEI of the mobile is "123456789012345" then XX XX XX XX XX XX XX XX = 1A 32 54 76 98 10 32 04. For further details see also TS 24.008 [10], clause 10.5.1.

### Expected Sequence 1.3 (PROVIDE LOCAL INFORMATION, Network Measurement Results (NMR))

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL<br>INFORMATION 1.3.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL INFORMATION<br>1.3.1        |  |
| 4    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION<br>1.3.1        | [Command performed successfully,<br>NMR as USS ] |

### PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.3.1

Logically:

#### Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "02" Network Measurement Results

#### Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

### TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.3.1

The actual values of the measurements are not tested.

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "02" Network Measurement Results

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Network Measurement Results RXLEV-FULL-SERVING-CELL=52, BA not used, DTX not used, as an example in the BER-TLV)

BCCH channel list 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 96 | 10 | 34 | 34 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
|          | 00 | 00 | 00 | 00 | 00 | 00 | 9D | 0D | 8C | 63 | 58 | E2 |
|          | 39 | 8F | 63 | F9 | 06 | 45 | 91 | A4 | 90 |    |    |    |

**Expected Sequence 1.4 (PROVIDE LOCAL INFORMATION, Date, Time, Time Zone)**

See ETSI TS 102 384 [26] in subclause 27.22.4.15.4.2, Expected Sequence 1.4.

**Expected Sequence 1.5 (PROVIDE LOCAL INFORMATION, Language setting)**

See ETSI TS 102 384 [26] in subclause 27.22.4.15.4.2, Expected Sequence 1.5.

**Expected Sequence 1.6 (PROVIDE LOCAL INFORMATION, Timing advance)**

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING<br>PROVIDE LOCAL INFORMATION 1.6.1 |                                  |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: PROVIDE<br>LOCAL INFORMATION 1.6.1        |                                  |
| 4    | ME → UICC | TERMINAL RESPONSE: PROVIDE<br>LOCAL INFORMATION 1.6.1        | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.6.1

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "05" Timing Advance

Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 05 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.6.1

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "05" Timing Advance

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Timing Advance

2 bytes  
 ME status: "00" ME is in idle state  
 Timing Advance: 0

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 05 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | AE | 02 | 00 | 00 |    |    |    |    |    |    |    |    |

**Expected Sequence 1.7 (PROVIDE LOCAL INFORMATION, Access Technology**

| Step | Direction | MESSAGE / Action  | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL<br>INFORMATION 1.7.1 |                                  |
| 2    | ME → UICC | FETCH   |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL INFORMATION<br>1.7.1        |                                  |
| 4    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION<br>1.7.1        | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.7.1

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "06" Access Technology

Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 06 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.7.1

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "06" Access Technology

Device identities

Source device: ME  
 Destination device: UICC



## Result

General Result: Command performed successfully  
 Access Technology  
 Technology: UTRAN

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 06 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 3F | 01 | 03 |    |    |    |    |    |    |    |    |    |

**Expected Sequence 1.8 (Void)****Expected Sequence 1.9 (PROVIDE LOCAL INFORMATION, IMEISV of the terminal)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL<br>INFORMATION 1.9.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL<br>INFORMATION 1.9.1        |  |
| 4    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL<br>INFORMATION 1.9.1        | [Command performed successfully,<br>IMEISV as declared in A.2/24, coded as<br>defined in TS 24.008 [10]] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.9.1

## Logically:

## Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "08" IMEISV of the ME

## Device identities

Source device: UICC  
 Destination device: ME

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 08 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.9.1

## Logically:

## Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "08" IMEISV of the ME

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## IMEISV

IMEISV of the ME: The IMEISV of the ME

The result coding depends on the ME IMEISV value as declared in table A.2/24.

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 08 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | E2 | 09 | XX | XX | XX | XX | XX | XX | XX | XX | XX |    |

As an example, if the IMEISV of the ME is "1234567890123456" then XX XX XX XX XX XX XX XX XX= 13 32 54 76 98 10 32 54 F6. For further details see also TS 24.008 [10].

### Expected Sequence 1.10 (PROVIDE LOCAL INFORMATION, Network Search Mode)

| Step | Direction | MESSAGE / Action  | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | User      | The user sets the ME to manual network selection mode         |                                  |
| 2    | UICC → ME | PROACTIVE COMMAND PENDING<br>PROVIDE LOCAL INFORMATION 1.10.1 |                                  |
| 3    | ME → UICC | FETCH   |                                  |
| 4    | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.1           |                                  |
| 5    | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.10.1           | [Command performed successfully] |
| 6    | User      | The user selects automatic network selection mode             |                                  |
| 7    | UICC → ME | PROACTIVE COMMAND PENDING<br>PROVIDE LOCAL INFORMATION 1.10.2 |                                  |
| 8    | ME → UICC | FETCH   |                                  |
| 9    | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.2           |                                  |
| 10   | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.10.2           | [Command performed successfully] |

#### PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.1

Logically:

##### Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "09" Search Mode

##### Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 09 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

#### TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.10.1

Logically:

##### Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "09" Search Mode

##### Device identities

Source device: ME  
 Destination device: UICC

##### Result

General Result: Command performed successfully  
 Network Search Mode: Manual mode

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 09 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 65 | 01 | 00 |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.2

same as PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.1

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.10.2

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "09" Search Mode

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Network Search Mode: Automatic mode

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 09 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 65 | 01 | 01 |    |    |    |    |    |    |    |    |    |

**Expected Sequence 1.11 (PROVIDE LOCAL INFORMATION, charge state of the battery)**

See ETSI TS 102 384 [26] in subclause 27.22.4.15.4.2, Expected Sequence 1.11.

**Expected Sequence 1.12 (PROVIDE LOCAL INFORMATION, Intra-Frequency UTRAN Measurements)**

| Step | Direction | MESSAGE / Action  | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL INFORMATION 1.12.1 |                                  |
| 2    | ME → UICC | FETCH   |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL INFORMATION 1.12.1        |                                  |
| 4    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION 1.12.1        | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.12.1

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "02" Network Measurement Results

Device identities

Source device: UICC  
 Destination device: ME

UTRAN/E-UTRAN Measurement Qualifier

UTRAN/E-UTRAN Measurement Qualifier: "01" Intra-frequency measurements

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 | 69 |
|          | 01 | 01 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.12.1

The actual values of the measurements are not tested.

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "02" Network Measurement Results

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Network Measurement Results MEASUREMENT REPORT message  
 intraFreqMeasuredResultsList

Coding:

|          |    |        |    |    |        |    |    |    |    |    |    |    |
|----------|----|--------|----|----|--------|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03     | 01 | 26 | 02     | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 96 | Note 1 | 80 | 00 | Note 2 |    |    |    |    |    |    |    |

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note2: The remaining bytes shall not be verified.

**Expected Sequence 1.13 (PROVIDE LOCAL INFORMATION, Inter-frequency UTRAN Measurements)**

| Step | Direction | MESSAGE / Action  | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL INFORMATION 1.13.1 |                                  |
| 2    | ME → UICC | FETCH   |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL INFORMATION 1.13.1        |                                  |
| 4    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION 1.13.1        | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.13.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "02" Network Measurement Results  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 UTRAN/E-UTRAN Measurement Qualifier  
 UTRAN/E-UTRAN Measurement Qualifier: "02" Inter-frequency measurements

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 | 69 |
|          | 01 | 02 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.13.1

The actual values of the measurements are not tested.

Logically:

Command details  
 Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "02" Network Measurement Results  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Network Measurement Results MEASUREMENT REPORT message  
 interFreqMeasuredResultsList

Coding:

|          |    |           |    |    |           |    |    |    |    |    |    |    |
|----------|----|-----------|----|----|-----------|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03        | 01 | 26 | 02        | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 96 | Note<br>1 | 80 | 11 | Note<br>2 |    |    |    |    |    |    |    |

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note2: The remaining bytes shall not be verified.

#### Expected Sequence 1.14 (PROVIDE LOCAL INFORMATION, Access Technology, E-UTRAN)

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL<br>INFORMATION 1.14.1 |                                  |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL INFORMATION<br>1.14.1        |                                  |
| 4    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION<br>1.14.1        | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.14.1

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "06" Access Technology

Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 06 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.14.1

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "06" Access Technology

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Access Technology

Technology: E-UTRAN

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 06 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 3F | 01 | 08 |    |    |    |    |    |    |    |    |    |

**Expected Sequence 1.15 (PROVIDE LOCAL INFORMATION, E-UTRAN Intra-Frequency Measurements)**

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL<br>INFORMATION 1.15.1 |                                  |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL INFORMATION<br>1.15.1        |                                  |
| 4    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION<br>1.15.1        | [Command performed successfully] |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.15.1

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "02" Network Measurement Results

Device identities

Source device: UICC  
 Destination device: ME  
 UTRAN/E-UTRAN Measurement Qualifier  
 UTRAN/E-UTRAN Measurement Qualifier: "05" E-UTRAN Intra-frequency measurements

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 | 69 |
|          | 01 | 05 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.15.1

The actual values of the measurements are not tested.

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "02" Network Measurement Results

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Network Measurement Results MEASUREMENT REPORT message  
 measResultNeighCells

Coding:

|          |    |        |    |        |        |    |    |    |    |    |    |    |
|----------|----|--------|----|--------|--------|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03     | 01 | 26     | 02     | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 96 | Note 1 | 08 | Note 2 | Note 3 |    |    |    |    |    |    |    |

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note 2: This byte shall be checked bitwise against pattern: 0xx1 xxxx (x – don't care).

Note 3: The remaining bytes shall not be verified.

The network measurement result indicated by '08' and binary value 0xx1 xxxx is:

```

Network Measurement results:
  measurementReport
    criticalExtensions: c1 (0)
      c1: measurementReport-r8 (0)
        measurementReport-r8
          measResults
            ... {Not Verified}
          measResultNeighCells:
            ... {Not Verified}
    
```

**Expected Sequence 1.16 (PROVIDE LOCAL INFORMATION, E-UTRAN Inter-Frequency Measurements)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | ME        | Terminal is in RRC idle state                                    |  |
| 2    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL<br>INFORMATION 1.16.1 |  |
| 3    | ME → UICC | FETCH  |  |
| 4    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL INFORMATION<br>1.16.1        |  |
| 5    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION<br>1.16.1        | [Command performed successfully,<br>limited service] |

#### PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.16.1

Logically:

##### Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "02" Network Measurement Results

##### Device identities

Source device: UICC  
 Destination device: ME

##### UTRAN/E-UTRAN Measurement Qualifier

UTRAN/E-UTRAN Measurement Qualifier: "06" E-UTRAN Inter-frequency measurements

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 26 | 02 | 82 | 02 | 81 | 82 | 69 |
|          | 01 | 06 |    |    |    |    |    |    |    |    |    |    |

#### TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.16.1

The actual values of the measurements are not tested.

Logically:

##### Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "02" Network Measurement Results

##### Device identities

Source device: ME  
 Destination device: UICC

##### Result

General Result: Command performed successfully  
 Network Measurement Results MEASUREMENT REPORT message  
 interFreqMeasuredResultsList

Coding:

|          |    |           |    |    |           |    |    |    |    |    |    |    |
|----------|----|-----------|----|----|-----------|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03        | 01 | 26 | 02        | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 96 | Note<br>1 | 80 | 11 | Note<br>2 |    |    |    |    |    |    |    |

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note2: The remaining bytes shall not be verified.



**Expected Sequence 1.17 (PROVIDE LOCAL INFORMATION, E-UTRAN Local Info (MCC, MNC, TAC & E-UTRAN Cell ID))**

| Step | Direction | MESSAGE / Action  | Comments |
|------|-----------|---|----------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING PROVIDE LOCAL<br>INFORMATION 1.1.1 |          |
| 2    | ME → UICC | FETCH   |          |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>PROVIDE LOCAL INFORMATION<br>1.1.1        |          |
| 4    | ME → UICC | TERMINAL RESPONSE:<br>PROVIDE LOCAL INFORMATION<br>1.17.1       |          |

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1

Sames as PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1 in expected sequence 1.1

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.17.1

Logically:

Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "00" Location information (MCC MNC TAC and E-UTRAN Cell Identity)

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Location Information  
 MCC & MNC: MCC = 001, MNC = 01  
 Tracking Area Code: 0001  
 E-UTRAN Cell Identifier: 0001 (28 bits)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 93 | 09 | 00 | F1 | 10 | 00 | 01 | 00 | 00 | 00 | 1F |    |

**Expected Sequence 1.18 (PROVIDE LOCAL INFORMATION, Discovery of surrounding CSG cells)**

| Step | Direction | MESSAGE / Action  | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | E-USS     | Cell 1 is enabled, with csg-indication set to TRUE<br>Cell 2 disabled |                                  |
| 2    | ME        | A manual CSG cell selection is performed.                             |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.18.1            |                                  |
| 4    | ME → UICC | FETCH   |                                  |
| 5    | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.18.1                   | 1 cell in the list               |
| 6    | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.18.1                   | [Command performed successfully] |
| 7    | E-USS     | Cell 2 is enabled, with csg-indication set to TRUE                    |                                  |
| 8    | ME        | A manual CSG cell selection is performed.                             |                                  |
| 9    | UICC → ME | PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.18.1            |                                  |
| 10   | ME → UICC | FETCH   |                                  |
| 11   | UICC → ME | PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.18.1                   | 2 cells in the list              |
| 12   | ME → UICC | TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.18.2                   | [Command performed successfully] |

## PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.18.1

Logically:

## Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "11" CSG ID list and corresponding HNB name

## Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |  |
|----------|----|----|----|----|----|----|----|----|----|----|----|--|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 26 | 11 | 82 | 02 | 81 | 82 |  |
|----------|----|----|----|----|----|----|----|----|----|----|----|--|

## TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.18.1

Logically:

## Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "11" CSG ID list and corresponding HNB name

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## CSG ID list Identifier

PLMN MCC = 001, MNC = 01  
 CSG ID and Name  
 CSG ID 01 (27 bits)  
 HNB name Home ONE

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 11 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 7E | 1C | 80 | 03 | 00 | F1 | 10 | 81 | 15 | 00 | 00 | 00 |
|          | 3F | 80 | 00 | 48 | 00 | 6F | 00 | 6D | 00 | 65 | 00 | 20 |
|          | 00 | 4F | 00 | 4E | 00 | 45 |    |    |    |    |    |    |

## TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.18.2

Logically:

## Command details

Command number: 1  
 Command type: PROVIDE LOCAL INFORMATION  
 Qualifier: "11" CSG ID list and corresponding HNB name

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## CSG ID list Identifier

PLMN MCC = 001, MNC = 01  
 CSG ID and Name

|                 |              |
|-----------------|--------------|
| CSG ID          | 01 (27 bits) |
| HNB name        | Home ONE     |
| CSG ID and Name |              |
| CSG ID          | 02 (27 bits) |
| HNB name        | Home TWO     |

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 26 | 11 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | 7E | 33 | 80 | 03 | 00 | F1 | 10 | 81 | 15 | 00 | 00 | 00 |
|          | 3F | 80 | 00 | 48 | 00 | 6F | 00 | 6D | 00 | 65 | 00 | 20 |
|          | 00 | 4F | 00 | 4E | 00 | 45 | 81 | 15 | 00 | 00 | 00 | 5F |
|          | 80 | 00 | 48 | 00 | 6F | 00 | 6D | 00 | 65 | 00 | 20 | 00 |
|          | 54 | 00 | 57 | 00 | 4F |    |    |    |    |    |    |    |

### Expected Sequence 1.19 (PROVIDE LOCAL INFORMATION, Location Information for Multiple Access Technologies)

TBD

### Expected Sequence 1.20 (PROVIDE LOCAL INFORMATION, NMR for Multiple Access Technologies)

TBD

### Expected Sequence 1.21 (PROVIDE LOCAL INFORMATION, current access technologies, Multiple Access Technologies)

TBD

NOTE: The above test sequences (1.19, 1.20, 1.21) on Multiple Access Technologies imply the support of one or more non-3GPP access technologies and therefore can not be tested within 3GPP.

#### 27.22.4.15.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.18.

#### 27.22.4.16 SET UP EVENT LIST

##### 27.22.4.16.1 SET UP EVENT LIST (normal)

###### 27.22.4.16.1.1 Definition and applicability

See clause 3.2.2.

###### 27.22.4.16.1.2 Conformance requirement

The ME shall support the Proactive UICC: Set Up Event List facility as defined in:

- TS 31.111 [15] clause 6.4.16 and clause 6.6.16.

Additionally the ME shall support the Event Download: Call Connect and the Event Download: Call Disconnected mechanism as defined in:

- TS 31.111 [15] clause 11.2, clause 11.2.1, clause 11.2.2, clause 11.3, clause 11.3.1 and clause 11.3.2.

###### 27.22.4.16.1.3 Test purpose

To verify that the ME accepts a list of events that it shall monitor the current list of events supplied by the UICC, is able to have this current list of events replaced and is able to have the list of events removed.

To verify that when the ME has successfully accepted or removed the list of events, it shall send TERMINAL RESPONSE (OK) to the UICC and when the ME is not able to successfully accept or remove the list of events, it shall send TERMINAL RESPONSE (Command beyond ME's capabilities).

#### 27.22.4.16.1.4 Method of test

##### 27.22.4.16.1.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default with the following exceptions.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

##### 27.22.4.16.1.4.2 Procedure

#### Expected Sequence 1.1 (SET UP EVENT LIST, Set Up Call Connect Event)

| Step | Direction | MESSAGE / Action                                   | Comments               |
|------|-----------|--|------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1 |                        |
| 2    | ME → UICC | FETCH  |                        |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1         |                        |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1         |                        |
| 5    | UICC → ME | PROACTIVE UICC SESSION ENDED                       |                        |
| 6    | USS → ME  | SETUP 1.1.1  | [Incoming call alert]  |
| 7    | USER → ME | User shall accept the incoming call                |                        |
| 8    | ME → USS  | CONNECT 1.1.1                                      |                        |
| 9    | ME → UICC | ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1.1      | [Call Connected Event] |
| 10   | UICC → ME | PROACTIVE UICC SESSION ENDED                       |                        |

#### PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

##### Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

##### Device identities

Source device: UICC  
 Destination device: ME

##### Event list

Event 1: Call Connected

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 01 |    |    |    |    |    |    |    |    |    |    |

#### TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

##### Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## SET UP 1.1.1

## Logically:

## Transaction identifier

Ti value: 0 (bit 5-7)

## Address

TON: "Unknown"  
 NPI: "ISDN/ telephone numbering plan"  
 Dialling number string: "9876"

## CONNECT 1.1.1

## Logically:

## Transaction identifier

Ti value: 0 (bit 5-7)  
 Ti flag: 1 (bit 8)

## ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1.1

## Logically

## Event list

Event 1: Call Connected

## Device identities

Source device: ME  
 Destination device: UICC

## Transaction identifier

Ti value: 0 (bit 5-7)  
 Ti flag: 1 (bit 8)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 99 | 01 | 01 | 82 | 02 | 82 | 81 | 9C | 01 | 80 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.2 (SET UP EVENT LIST, Replace Event)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.2.1   |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.2.1  | [Call Connected and Call Disconnected<br>Events] |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.2.1  |  |
| 5    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.2.2   |  |
| 6    | ME → UICC | FETCH  |  |
| 7    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.2.2  | [Call Disconnected Event]                        |
| 8    | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.2.2  |  |
| 9    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |
| 10   | USS → ME  | SETUP 1.2.2  | [Incoming call alert]                            |
| 11   | USER → ME | User shall accept the incoming call  |  |
| 12   | ME → USS  | CONNECT 1.2.2  |  |
| 13   | USS → ME  | DISCONNECT 1.2.2   |  |
| 14   | ME → UICC | ENVELOPE: EVENT DOWNLOAD<br>CALL DISCONNECT 1.2.2A<br>or<br>ENVELOPE: EVENT DOWNLOAD<br>CALL DISCONNECT 1.2.2B | [Call Disconnect Event]                          |
| 15   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |

**PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1**

Logically:

## Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: UICC  
 Destination device: ME

## Event list

Event 1: Call Connected  
 Event 2: Call Disconnected

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0D | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 02 | 01 | 02 |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1**

Logically:

## Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: ME

Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2

Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 Event list  
 Event 1: Call Disconnected

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 02 |    |    |    |    |    |    |    |    |    |    |

#### TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2

Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### SET UP 1.2.2

Logically:

Transaction identifier  
 Ti value: 0 (bit 5-7)  
 Ti flag: 0 (bit 8)  
 Address  
 TON: "Unknown"  
 NPI: "ISDN/ telephone numbering plan"  
 Dialling number string: "9876"

#### CONNECT 1.2.2

Logically:

Transaction identifier  
 Ti value: 0 (bit 5-7)  
 Ti flag: 1 (bit 8)

DISCONNECT 1.2.2

Logically:

Transaction identifier  
 Ti value: 0 (bit 5-7)  
 Ti flag: 0 (bit 8)  
 Cause  
 Value: Normal call clearing

ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2A

Logically:

Event list  
 Event 1: Call Disconnected  
 Device identities  
 Source device: Network  
 Destination device: UICC  
 Transaction identifier  
 Ti value: 0 (bit 5-7)  
 Ti flag: 0 (bit 8)  
 Cause  
 Value: Normal call clearing

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 99 | 01 | 02 | 82 | 02 | 83 | 81 | 9C | 01 | 00 |
|          | 9A | 02 | 60 | 90 |    |    |    |    |    |    |    |    |

ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2B

Logically:

Event list  
 Event 1: Call Disconnected  
 Device identities  
 Source device: Network  
 Destination device: UICC  
 Transaction identifier  
 Ti value: 0 (bit 5-7)  
 Ti flag: 0 (bit 8)  
 Cause  
 Value: Normal call clearing

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 99 | 01 | 02 | 82 | 02 | 83 | 81 | 9C | 01 | 00 |
|          | 9A | 02 | E0 | 90 |    |    |    |    |    |    |    |    |



**Expected Sequence 1.3 (SET UP EVENT LIST, Remove Event)**

| Step | Direction | MESSAGE / Action   | Comments               |
|------|-----------|--|------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.3.1 |                        |
| 2    | ME → UICC | FETCH  |                        |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.3.1            | [Call Connected Event] |
|      | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.3.1            |                        |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.3.2 |                        |
| 5    | ME → UICC | FETCH  |                        |
| 6    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.3.2            | [Remove Event]         |
| 7    | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.3.2            |                        |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED                          |                        |
| 10   | USS → ME  | SETUP 1.3.2  | [Incoming call alert]  |
| 11   | USER → ME | User shall accept the incoming call                      |                        |
| 12   | ME → USS  | CONNECT 1.3.2  |                        |
| 13   | ME → UICC | No ENVELOPE: EVENT<br>DOWNLOAD (call connected) sent     |                        |
| 14   | USS → ME  | DISCONNECT 1.3.2   |                        |

**PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Call Connected

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 01 |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2

Logically:

## Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: UICC  
 Destination device: ME  
 Event list: Empty

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0B | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 00 |    |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SET UP EVENT LIST 1.3.2

Logically:

## Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## SET UP 1.3.2

Logically:

## Transaction identifier

Ti value: 0 (bit 5-7)  
 Ti flag: 0 (bit 8)

## Address

TON: "Unknown"  
 NPI: "ISDN/ telephone numbering plan"  
 Dialling number string: "9876"

## CONNECT 1.3.2

Logically:

## Transaction identifier

Ti value: 0 (bit 5-7)  
 Ti flag: 1 (bit 8)

## DISCONNECT 1.3.2

Logically:

Transaction identifier

Ti value: 0 (bit 5-7)

Ti flag: 0 (bit 8)

Cause

Value: Normal call clearing

**Expected Sequence 1.4 (SET UP EVENT LIST, Remove Event on ME Power Cycle)**

| Step | Direction | MESSAGE / Action   | Comments               |
|------|-----------|--|------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.4.1 |                        |
| 2    | ME → UICC | FETCH  |                        |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.4.1            | [Call Connected Event] |
|      | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.4.1            |                        |
| 4    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED                          |                        |
| 5    | User → ME | Power off ME   |                        |
| 6    | User → ME | Power on ME  |                        |
| 7    | USS → ME  | SETUP 1.4.1  | [Incoming call alert]  |
| 8    | USER → ME | User shall accept the incoming call                      |                        |
| 9    | ME → USS  | CONNECT 1.4.1  |                        |
| 10   | ME → UICC | No ENVELOPE: EVENT<br>DOWNLOAD (call connected) sent     |                        |
| 11   | USS → ME  | DISCONNECT 1.4.1   |                        |

**PROACTIVE COMMAND: SET UP EVENT LIST 1.4.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Call Connected

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 01 |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE: SET UP EVENT LIST 1.4.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## SET UP 1.4.1

Logically:

Transaction identifier  
 Ti value: 0 (bit 5-7)  
 Ti flag: 0 (bit 8)

Address  
 TON: "Unknown"  
 NPI: "ISDN/ telephone numbering plan"  
 Dialling number string: "9876"

## CONNECT 1.4.1

Logically:

Transaction identifier  
 Ti value: 0 (bit 5-7)  
 Ti flag: 1 (bit 8)

## DISCONNECT 1.4.1

Logically:

Transaction identifier  
 Ti value: 0 (bit 5-7)  
 Ti flag: 0 (bit 8)

Cause  
 Value: Normal call clearing

## 27.22.4.16.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.4.

## 27.22.4.17 PERFORM CARD APDU

## 27.22.4.17.1 PERFORM CARD APDU (normal)

## 27.22.4.17.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.17.1.2 Conformance requirement

The ME shall support the Proactive UICC: Perform Card APDU facility as defined in:

- TS 31.111 [15] clause 6.1, clause 5.2, clause 6.4.17, clause 6.6.17, clause 6.8, clause 8.6, clause 8.7, clause 8.35, clause 8.36 and clause 8.12.9.

Additionally the ME shall support multiple card operation as defined in:

- TS 31.111 [15] clause 6.4.19, clause 6.6.19, clause 6.4.18 and clause 6.6.18.

## 27.22.4.17.1.3 Test purpose

To verify that the ME sends an APDU command to the additional card identified in the PERFORM CARD APDU proactive UICC command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

In this particular case a special Test-SIM (TestSIM) with T=0 protocol is chosen as additional card for the additional ME card reader (for coding of the TestSIM see annex A).

#### 27.22.4.17.1.4 Method of test

##### 27.22.4.17.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The TestSIM is inserted in the additional ME card reader.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

The elementary files of the TestSIM are coded as defined in annex A. Another card with different parameters may be used as TestSIM to execute these tests. In this case the USIM Simulator shall take into account the corresponding response data.

##### 27.22.4.17.1.4.2 Procedure

#### **Expected Sequence 1.1 (PERFORM CARD APDU, card reader 1, additional card inserted, Select MF and Get Response)**

See ETSI TS 102 384 [26] in subclause 27.22.4.17.1.4.2, Expected Sequence 1.1.

#### **Expected Sequence 1.2 (PERFORM CARD APDU, card reader 1, additional card inserted, Select DF GSM, Select EF PLMN , Update Binary, Read Binary on EF PLMN)**

See ETSI TS 102 384 [26] in subclause 27.22.4.17.1.4.2, Expected Sequence 1.2.

#### **Expected Sequence 1.3 (PERFORM CARD APDU, card reader 1, card inserted, card powered off)**

See ETSI TS 102 384 [26] in subclause 27.22.4.17.1.4.2, Expected Sequence 1.3.

#### **Expected Sequence 1.4 (PERFORM CARD APDU, card reader 1, no card inserted)**

See ETSI TS 102 384 [26] in subclause 27.22.4.17.1.4.2, Expected Sequence 1.4.

#### **Expected Sequence 1.5 (PERFORM CARD APDU, card reader 7 (which is not the valid card reader identifier of the additional ME card reader))**

See ETSI TS 102 384 [26] in subclause 27.22.4.17.1.4.2, Expected Sequence 1.5.

##### 27.22.4.17.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.5.

#### 27.22.4.17.2 PERFORM CARD APDU (detachable card reader)

##### 27.22.4.17.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.17.2.2 Conformance requirement

27.22.4.17.2.3 Test purpose

To verify that the ME sends an APDU command to the additional card identified in the PERFORM CARD APDU proactive UICC command, and successfully returns the result of the execution of the command in the TERMINAL RESPONSE command send to the UICC.

27.22.4.17.2.4 Method of test

27.22.4.17.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The card reader shall be detached from the ME.

27.22.4.17.2.4.2 Procedure

#### **Expected Sequence 2.1 (PERFORM CARD APDU, card reader 1, card reader detached)**

See ETSI TS 102 384 [26] in subclause 27.22.4.17.2.4.2, Expected Sequence 2.1.

27.22.4.17.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

### **27.22.4.18 POWER OFF CARD**

27.22.4.18.1 POWER OFF CARD (normal)

27.22.4.18.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.18.1.2 Conformance requirement

The ME shall support the Proactive UICC: Power Off Card facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.18, clause 6.6.18, clause 8.6, clause 8.7, clause 8.12, clause 8.12.9, clause 5.2 and annex H.

27.22.4.18.1.3 Test purpose

To verify that the ME closes a session with the additional card identified in the POWER OFF CARD proactive UICC command, and successfully returns result in the TERMINAL RESPONSE command send to the UICC.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

27.22.4.18.1.4 Method of test

27.22.4.18.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME card reader is connected to aSIM Simulator (SIM2). Instead of a SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the USIM Simulator shall take into account the corresponding response data.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

Prior to this test the ME shall have powered on the SIM Simulator (SIM2).

#### 27.22.4.18.1.4.2 Procedure

##### **Expected Sequence 1.1 (POWER OFF CARD, card reader 1)**

See ETSI TS 102 384 [26] in subclause 27.22.4.18.1.4.2, Expected Sequence 1.1.

##### **Expected Sequence 1.2 (POWER OFF CARD, card reader 1, no card inserted)**

See ETSI TS 102 384 [26] in subclause 27.22.4.18.1.4.2, Expected Sequence 1.2.

#### 27.22.4.18.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.2.

#### 27.22.4.18.2 POWER OFF CARD (detachable card reader)

##### 27.22.4.18.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.18.2.2 Conformance requirement

Void.

##### 27.22.4.18.2.3 Test purpose

To verify that the ME closes a session with the additional card identified in the POWER OFF CARD proactive UICC command, and successfully returns result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.18.2.4 Method of test

###### 27.22.4.18.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME card reader is connected to a SIM Simulator (SIM2).

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to this test the ME shall have powered on the SIM Simulator (SIM2).

The card reader shall be detached from the ME.

###### 27.22.4.18.2.4.2 Procedure

##### **Expected Sequence 2.1 (POWER OFF CARD, card reader 1, no card reader attached)**

See ETSI TS 102 384 [26] in subclause 27.22.4.18.2.4.2, Expected Sequence 2.1.

##### 27.22.4.18.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

## 27.22.4.19 POWER ON CARD

### 27.22.4.19.1 POWER ON CARD (normal)

#### 27.22.4.19.1.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.19.1.2 Conformance requirement

The ME shall support the Proactive UICC: Power On Card facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.19, clause 6.6.19, clause 8.6, clause 8.7, clause 8.12, clause 8.12.9, clause 8.34, clause 5.2 and annex H.

#### 27.22.4.19.1.3 Test purpose

To verify that the ME starts a session with the additional card identified in the POWER ON CARD proactive UICC command, and successfully returns the Answer To Reset within the TERMINAL RESPONSE command send to the UICC.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

#### 27.22.4.19.1.4 Method of test

##### 27.22.4.19.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME card reader is connected to a SIM Simulator (SIM2). Instead of the SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the USIM Simulator shall take into account the corresponding response data.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

##### 27.22.4.19.1.4.2 Procedure

#### **Expected Sequence 1.1 (POWER ON CARD, card reader 1)**

See ETSI TS 102 384 [26] in subclause 27.22.4.19.1.4.2, Expected Sequence 1.1.

#### **Expected Sequence 1.2 (POWER ON CARD, card reader 1, no ATR)**

See ETSI TS 102 384 [26] in subclause 27.22.4.19.1.4.2, Expected Sequence 1.2.

#### **Expected Sequence 1.3 (POWER ON CARD, card reader 1, no card inserted)**

See ETSI TS 102 384 [26] in subclause 27.22.4.19.1.4.2, Expected Sequence 1.3.

#### 27.22.4.19.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.



## 27.22.4.19.2 POWER ON CARD (detachable card reader)

### 27.22.4.19.2.1 Definition and applicability

See clause 3.2.2.

### 27.22.4.19.2.2 Conformance requirement

### 27.22.4.19.2.3 Test purpose

To verify that the ME starts a session with the additional card identified in the POWER ON CARD proactive UICC command, and successfully returns the Answer To Reset within the TERMINAL RESPONSE command send to the UICC.

### 27.22.4.19.2.4 Method of test

#### 27.22.4.19.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default with the following exceptions.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The card reader shall be detached from the ME.

#### 27.22.4.19.2.4.2 Procedure

#### **Expected Sequence 2.1 (POWER ON CARD, card reader 1, no card reader attached)**

See ETSI TS 102 384 [26] in subclause 27.22.4.19.2.4.2, Expected Sequence 2.1.

### 27.22.4.19.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

## 27.22.4.20 GET READER STATUS

### 27.22.4.20.1 GET READER STATUS (normal)

#### 27.22.4.20.1.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.20.1.2 Conformance requirement

The ME shall support the Proactive UICC: Get Card Reader Status facility as defined in:

- TS 31.111 [15] clause 6.1, clause 5.2, clause 6.4.20, clause 6.6.20, clause 6.8, clause 8.6, clause 8.7, clause 8.33, clause 8.57 and annex H.

Additionally the ME shall support multiple card operation as defined in:

- TS 31.111 [15] clause 6.4.19, clause 6.6.19, clause 6.4.18 and clause 6.6.18.

#### 27.22.4.20.1.3 Test purpose

To verify that the ME sends starts a session with the additional card identified in the GET CARD READER STATUS proactive UICC command, and successfully returns information about all interfaces to additional card reader(s) in the TERMINAL RESPONSE command send to the UICC.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

In this test case the SIM-Simulator (SIM2) shall response with the ATR "3B 00".

#### 27.22.4.20.1.4 Method of test

##### 27.22.4.20.1.4.1 Initial conditions

The ME shall support the Proactive UICC: Get Card Reader Status (Card Reader Status) facility. The ME is connected to the USIM Simulator.

The ME card reader is connected to a SIM Simulator (SIM2). Instead of the SIM Simulator a card with different parameters may be used as SIM2 to execute these tests. In this case the USIM Simulator shall take into account the corresponding response data.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

If the ME supports a detachable card reader, the card reader shall be attached to the ME.

Prior to this test the ME shall have powered on the SIM Simulator (SIM2).

##### 27.22.4.20.1.4.2 Procedure

#### **Expected Sequence 1.1 (GET CARD READER STATUS, card reader 1, card inserted, card powered)**

See ETSI TS 102 384 [26] in subclause 27.22.4.20.1.4.2, Expected Sequence 1.1.

#### **Expected Sequence 1.2 (GET CARD READER STATUS, card reader 1, card inserted, card not powered)**

See ETSI TS 102 384 [26] in subclause 27.22.4.20.1.4.2, Expected Sequence 1.2.

#### **Expected Sequence 1.3 (GET CARD READER STATUS, card reader 1, card not present)**

See ETSI TS 102 384 [26] in subclause 27.22.4.20.1.4.2, Expected Sequence 1.3.

##### 27.22.4.20.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

#### 27.22.4.20.2 GET CARD READER STATUS (detachable card reader)

##### 27.22.4.20.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.20.2.2 Conformance requirement

Void.

##### 27.22.4.20.2.3 Test purpose

To verify that the ME closes a session with the additional card identified in the GET CARD READER STATUS proactive UICC command, and successfully returns result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.20.2.4 Method of test

27.22.4.20.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to this test the ME shall have powered on the SIM Simulator (SIM2).

The card reader shall be detached from the ME.

27.22.4.20.2.4.2 Procedure

**Expected Sequence 2.1 (GET CARD READER STATUS, no card reader attached)**

See ETSI TS 102 384 [26] in subclause 27.22.4.20.2.4.2, Expected Sequence 2.1.

27.22.4.20.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 2.1.

## 27.22.4.21 TIMER MANAGEMENT and ENVELOPE TIMER EXPIRATION

27.22.4.21.1 TIMER MANAGEMENT (normal)

27.22.4.21.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.21.1.2 Conformance Requirement

The ME shall support the TIMER MANAGEMENT as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.21, clause 6.8, clause 8.6, clause 8.7, clause 8.37 and clause 8.38.

27.22.4.21.1.3 Test purpose

To verify that the ME manages correctly its internal timers, start a timer, deactivate a timer or return the current value of a timer according to the Timer Identifier defined in the TIMER MANAGEMENT proactive UICC command.

27.22.4.21.1.4 Method of Test

27.22.4.21.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default with the following exceptions.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

27.22.4.21.1.4.2 Procedure

**Expected Sequence 1.1 (TIMER MANAGEMENT, start timer 1 several times, get the current value of the timer and deactivate the timer successfully)**

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.1.

**Expected Sequence 1.2 (TIMER MANAGEMENT, start timer 2 several times, get the current value of the timer and deactivate the timer successfully)**

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.2.

**Expected Sequence 1.3 (TIMER MANAGEMENT, start timer 8 several times, get the current value of the timer and deactivate the timer successfully)**

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.3.

**Expected Sequence 1.4 (TIMER MANAGEMENT, try to get the current value of a timer which is not started: action in contradiction with the current timer state)**

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.4.

**Expected Sequence 1.5 (TIMER MANAGEMENT, try to deactivate a timer which is not started: action in contradiction with the current timer state)**

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.5.

**Expected Sequence 1.6 (TIMER MANAGEMENT, start 8 timers successfully)**

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.6.

27.22.4.21.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.6.

27.22.4.21.2 ENVELOPE TIMER EXPIRATION (normal)

27.22.4.21.2.1 Definition and applicability

See clause 3.2.2.

27.22.4.21.2.2 Conformance requirement

The ME shall support the ENVELOPE (TIMER EXPIRATION) command as defined in the following technical specifications:

- TS 31.111 [15] clause 4.10, clause 7.4.1 and clause 7.4.2.

The ME shall support the TIMER MANAGEMENT as defined in the following technical specifications:

- TS 31.111 [15] clause 5.2, clause 6.4.21, clause 6.8, clause 8.6, clause 8.7, clause 8.37 and clause 8.38.

27.22.4.21.2.3 Test purpose

To verify that the ME shall pass the identifier of the timer that has expired and its value using the ENVELOPE (TIMER EXPIRATION) command, when a timer previously started in a TIMER MANAGEMENT proactive command expires.

27.22.4.21.2.4 Method of test

27.22.4.21.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default with the following exceptions.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The timer 1 is not started.

When the UICC is busy when the envelope TIMER EXPIRATION is sent, either the ME retries periodically to send the envelope or it waits for a status not indicating busy.

#### 27.22.4.21.2.4.2 Procedure

##### **Expected Sequence 2.1 (TIMER EXPIRATION, pending proactive UICC command)**

See ETSI TS 102 384 [26] in subclause 27.22.4.21.2.4.2, Expected Sequence 2.1.

##### **Expected Sequence 2.2 (TIMER EXPIRATION, UICC application toolkit busy)**

See ETSI TS 102 384 [26] in subclause 27.22.4.21.2.4.2, Expected Sequence 2.2.

#### 27.22.4.21.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.2.

### 27.22.4.22 SET UP IDLE MODE TEXT

#### 27.22.4.22.1 SET UP IDLE MODE TEXT (normal)

##### 27.22.4.22.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.22.1.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 6.4.7 and clause 6.6.13.

Additionally the ME shall support the REFRESH proactive UICC facility as defined in:

- TS 31.111 [15] clause 5.2, clause 6.1, clause 6.4.7, clause 6.6.13, clause 6.11, clause 8.6, clause 8.7, clause 8.12, clause 9.4 and clause 10.

##### 27.22.4.22.1.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text.

##### 27.22.4.22.1.4 Method of test

###### 27.22.4.22.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

###### 27.22.4.22.1.4.2 Procedure

##### **Expected Sequence 1.1 (SET UP IDLE MODE TEXT, display idle mode text)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.1.4.2, Expected Sequence 1.1.

##### **Expected Sequence 1.2 (SET UP IDLE MODE TEXT, replace idle mode text)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.1.4.2, Expected Sequence 1.2.

**Expected Sequence 1.3 (SET UP IDLE MODE TEXT, remove idle mode text)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.1.4.2, Expected Sequence 1.3.

**Expected Sequence 1.4 (SET UP IDLE MODE TEXT, competing information on ME display)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP IDLE MODE<br>TEXT 1.1.1   |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>IDLE MODE TEXT 1.1.1  | ["Idle Mode Text"]   |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>IDLE MODE TEXT 1.1.1  | [Command performed successfully]   |
| 5    | USER → ME | Select idle screen   | Only if idle screen not already available                                  |
| 6    | ME → USER | Display "Idle Mode Text"   |  |
| 7    | USS → ME  | SMS PP 1.4.1   | [Display immediate SMS]  |
| 8    | ME → USER | Display "Test Message"   |  |
| 9    | USER → ME | Clear display and select idle<br>screen  |  |
| 10   | ME → USER | Display "Idle Mode Text"   |  |
| 11   | UICC → ME | PROACTIVE COMMAND<br>PENDING: DISPLAY TEXT 1.4.1   |  |
| 12   | ME → UICC | FETCH  |  |
| 13   | UICC → ME | PROACTIVE COMMAND:<br>DISPLAY TEXT 1.4.1   | [Normal priority, wait for user to clear<br>message, unpacked, 8 bit data] |
| 14   | ME → USER | Display "Toolkit Test 1"   |  |
| 15   | USER → ME | Clear Message  |  |
| 16   | ME → UICC | TERMINAL RESPONSE:<br>DISPLAY TEXT 1.4.1   | [Command performed successfully]   |
| 17   | ME → USER | Display "Idle Mode Text"   |  |
| 18   | UICC → ME | PROACTIVE COMMAND<br>PENDING: PLAY TONE 1.4.1  |  |
| 19   | ME → UICC | FETCH  |  |
| 20   | UICC → ME | PROACTIVE COMMAND: PLAY<br>TONE 1.4.1  |  |
| 21   | ME → USER | Display "Dial Tone"<br>Play a standard supervisory dial<br>tone through the external ringer for<br>a duration of 5 s |  |
| 22   | ME → UICC | TERMINAL RESPONSE: PLAY<br>TONE 1.4.1  | [Command performed successfully]   |
| 23   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |
| 24   | ME → USER | Display "Idle Mode Text"   |  |

## SMS-PP 1.4.1

Logically:

## SMS TPDU

|               |  |
|---------------|--|
| TP-MTI        | SMS-DELIVER                                    |
| TP-MMS        | No more messages waiting for the MS in this SC |
| TP-RP         | TP-Reply-Path is not set in this SMS-DELIVER   |
| TP-UDHI       | TP-UD field contains only the short message    |
| TP-SRI        | A status report will not be returned to the ME |
| TP-OA         |  |
| TON           | International number                           |
| NPI           | "ISDN / telephone numbering plan"              |
| Address value | "1234"   |
| TP-PID        | "00"   |
| TP-DCS        |  |
| Coding Group  | General Data Coding                            |
| Compression   | Text is uncompressed                           |

Message Class      Class 0  
 Alphabet            GSM 7 bit default alphabet  
 TP-SCTS:            01/01/98 00:00:00 +0  
 TP-UDL              12  
 TP-UD               "Test Message"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 04 | 04 | 91 | 21 | 43 | 00 | 10 | 89 | 10 | 10 | 00 | 00 |
|        | 00 | 00 | 0C | D4 | F2 | 9C | 0E | 6A | 96 | E7 | F3 | F0 |
|        | B9 | 0C |    |    |    |    |    |    |    |    |    |    |

#### PROACTIVE COMMAND: DISPLAY TEXT 1.4.1

Logically:

##### Command details

Command number:    1  
 Command type:        DISPLAY TEXT  
 Command qualifier:   normal priority, wait for user to clear message

##### Device identities

Source device:        UICC  
 Destination device:   Display

##### Text String

Data coding scheme:  unpacked, 8 bit data  
 Text:                    "Toolkit Test 1"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 21 | 80 | 82 | 02 | 81 | 02 | 8D |
|          | 0F | 04 | 54 | 6F | 6F | 6C | 6B | 69 | 74 | 20 | 54 | 65 |
|          | 73 | 74 | 20 | 31 |    |    |    |    |    |    |    |    |

#### TERMINAL RESPONSE: DISPLAY TEXT 1.4.1

Logically:

##### Command details

Command number:    1  
 Command type:        DISPLAY TEXT  
 Command qualifier:   normal priority, wait for user to clear message

##### Device identities

Source device:        ME  
 Destination device:   UICC

##### Result

General Result:       Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 21 | 80 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### PROACTIVE COMMAND: PLAY TONE 1.4.1

Logically:

##### Command details

Command number:    1  
 Command type:        PLAY TONE  
 Command qualifier:   "00"

##### Device identities

Source device:        UICC

Destination device: Earpiece  
 Alpha identifier: "Dial Tone"  
 TONe: Standard supervisory tones: dial tone

Duration

Time unit: Seconds  
 Time interval: 5

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1B | 81 | 03 | 01 | 20 | 00 | 82 | 02 | 81 | 03 | 85 |
|          | 09 | 44 | 69 | 61 | 6C | 20 | 54 | 6F | 6E | 65 | 8E | 01 |
|          | 01 | 84 | 02 | 01 | 05 |    |    |    |    |    |    |    |

TERMINAL RESPONSE: PLAY TONE 1.4.1

Logically:

Command details

Command number: 1  
 Command type: PLAY TONE  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 20 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.5 (SET UP IDLE MODE TEXT, ME power cycled)**

| Step | Direction | MESSAGE / Action  | Comments                                  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP IDLE MODE<br>TEXT 1.1.1  |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>IDLE MODE TEXT 1.1.1             | ["Idle Mode Text"]                        |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>IDLE MODE TEXT 1.1.1             | [command performed successfully]          |
| 5    | USER → ME | Select idle screen  | Only if idle screen not already available |
| 6    | ME → USER | Display "Idle Mode Text"                                      |   |
| 7    | USER → ME | Power off ME  |   |
| 8    | ME ↔ UICC | 3G Session TERMINATION<br>PROCEDURE                           |   |
| 9    | USER → ME | Power on ME   |   |
| 10   | ME ↔ UICC | 3G Session ACTIVATION<br>PROCEDURE                            |   |
| 11   | ME ↔ UICC | USIM INITIALIZATION   |   |
| 12   | USER → ME | Select idle screen  | Only if idle screen not already available |
| 13   | ME → USER | Display idle screen / "Idle Mode<br>Text" not to be displayed |   |



**Expected Sequence 1.6 (SET UP IDLE MODE TEXT, REFRESH with USIM Initialization)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP IDLE MODE<br>TEXT 1.1.1                       | [Idle Mode Text]   |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>IDLE MODE TEXT 1.1.1                                  |  |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>IDLE MODE TEXT 1.1.1                                  |  |
| 5    | USER → ME | Select idle screen   | Only if idle screen not already available  |
| 6    | ME → USER | Display "Idle Mode Text"   |  |
| 7    | UICC → ME | PROACTIVE COMMAND<br>PENDING: REFRESH 1.6.1  |  |
| 8    | ME → UICC | FETCH  |  |
| 9    | UICC → ME | PROACTIVE COMMAND:<br>REFRESH 1.6.1  | [USIM Initialization]  |
| 10   | ME ↔ UICC | USIM INITIALIZATION  |  |
| 11   | USER → ME | Select idle screen   | Only if idle screen not already available  |
| 12   | ME → USER | Display idle screen / "Idle Mode<br>Text" not to be displayed                      |  |
| 13   | ME → UICC | TERMINAL RESPONSE:<br>REFRESH 1.6.1A<br>or<br>TERMINAL RESPONSE:<br>REFRESH 1.6.1B | [Command performed successfully]<br>[Command performed successfully with<br>additional files read] |
| 14   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |

PROACTIVE COMMAND: REFRESH 1.6.1

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization

Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 01 | 03 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

TERMINAL RESPONSE: REFRESH 1.6.1A

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 01 | 03 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

TERMINAL RESPONSE: REFRESH 1.6.1B

Logically:

Command details

Command number: 1  
 Command type: REFRESH  
 Command qualifier: USIM Initialization

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: REFRESH performed with additional EFs read

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 01 | 03 | 82 | 02 | 82 | 81 | 83 | 01 | 03 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

### Expected Sequence 1.7 (SET UP IDLE MODE TEXT, large text string)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.1.4.2, Expected Sequence 1.7.

#### 27.22.4.22.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.7.

#### 27.22.4.22.2 SET UP IDLE MODE TEXT (Icon support)

##### 27.22.4.22.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.22.2.2 Conformance requirement

##### 27.22.4.22.2.3 Test purpose

To verify that the ME text and / or icon passed to the ME is displayed by the ME as an idle mode text.

To verify that the icon identifier provided with the text string can replace the text string or accompany it.

To verify that if both an alpha identifier or text string, and an icon are provided with a proactive command, and both are requested to be displayed, but the ME is not able to display both together on the screen, then the alpha identifier or text string takes precedence over the icon.

To verify that if the UICC provides an icon identifier with a proactive command, then the ME shall inform the UICC if the icon could not be displayed by sending the general result "Command performed successfully, but requested icon could not be displayed".

To verify that if the ME receives an icon identifier with a proactive command, and either an empty, or no alpha identifier / text string is given by the UICC, then the ME shall reject the command with general result "Command data not understood by ME".

27.22.4.22.2.4 Method of test

27.22.4.22.2.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in update idle mode on the System Simulator.

27.22.4.22.2.4.2 Procedure

**Expected Sequence 2.1A (SET UP IDLE MODE TEXT, Icon is self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.1A.

**Expected Sequence 2.1B (SET UP IDLE MODE TEXT, Icon is self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.1B.

**Expected Sequence 2.2A (SET UP IDLE MODE TEXT, Icon is not self-explanatory, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.2A.

**Expected Sequence 2.2B (SET UP IDLE MODE TEXT, Icon is not self-explanatory, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.2B.

**Expected Sequence 2.3A (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.3A.

**Expected Sequence 2.3B (SET UP IDLE MODE TEXT, Icon is self-explanatory, colour icon, requested icon could not be displayed)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.3B.

**Expected Sequence 2.4 (SET UP IDLE MODE TEXT, Icon is not self-explanatory, empty text string)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.2.4.2, Expected Sequence 2.4.

27.22.4.22.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1A to 2.4.

27.22.4.22.3 SET UP IDLE MODE TEXT (UCS2 support)

27.22.4.22.3.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.3.2 Conformance requirement

The ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

### 27.22.4.22.3.3 Test purpose

To verify that the UCS2 coded text string is displayed by the ME as an idle mode text.

### 27.22.4.22.3.4 Method of test

#### 27.22.4.22.3.4.1 Initial conditions

The ME is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in update idle mode on the System Simulator..

#### 27.22.4.22.3.4.2 Procedure

##### **Expected Sequence 3.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.3.4.2, Expected Sequence 3.1.

### 27.22.4.22.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

## 27.22.4.22.4 SET UP IDLE MODE TEXT (support of Text Attribute)

### 27.22.4.22.4.1 SET UP IDLE MODE TEXT (support of Text Attribute – Left Alignment)

#### 27.22.4.22.4.1.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.22.4.1.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

#### 27.22.4.22.4.1.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the left alignment text attribute configuration.

#### 27.22.4.22.4.1.4 Method of test

##### 27.22.4.22.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

##### 27.22.4.22.4.1.4.2 Procedure

##### **Expected Sequence 4.1 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Left Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.1.4.2, Expected Sequence 4.1.

#### 27.22.4.22.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

#### 27.22.4.22.4.2 SET UP IDLE MODE TEXT (support of Text Attribute – Center Alignment)

##### 27.22.4.22.4.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.22.4.2.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

##### 27.22.4.22.4.2.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the center alignment text attribute configuration.

##### 27.22.4.22.4.2.4 Method of test

###### 27.22.4.22.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

###### 27.22.4.22.4.2.4.2 Procedure

Expected Sequence 4.2 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Center Alignment)

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.2.4.2, Expected Sequence 4.2.

##### 27.22.4.22.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

#### 27.22.4.22.4.3 SET UP IDLE MODE TEXT (support of Text Attribute – Right Alignment)

##### 27.22.4.22.4.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.22.4.3.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

##### 27.22.4.22.4.3.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the right alignment text attribute configuration.

27.22.4.22.4.3.4 Method of test

27.22.4.22.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.3.4.2 Procedure

**Expected Sequence 4.3 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Right Alignment)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.3.4.2, Expected Sequence 4.3.

27.22.4.22.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

27.22.4.22.4.4 SET UP IDLE MODE TEXT (support of Text Attribute – Large Font Size)

27.22.4.22.4.4.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.4.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.4.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the large font size text attribute configuration.

27.22.4.22.4.4.4 Method of test

27.22.4.22.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.4.4.2 Procedure

**Expected Sequence 4.4 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Large Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.4.4.2, Expected Sequence 4.4.

27.22.4.22.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

27.22.4.22.4.5 SET UP IDLE MODE TEXT (support of Text Attribute – Small Font Size)

27.22.4.22.4.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.5.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.5.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the small font size text attribute configuration.

27.22.4.22.4.5.4 Method of test

27.22.4.22.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.5.4.2 Procedure

**Expected Sequence 4.5 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Small Font Size)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.5.4.2, Expected Sequence 4.5.

27.22.4.22.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.22.4.6 SET UP IDLE MODE TEXT (support of Text Attribute – Bold On)

27.22.4.22.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.6.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.6.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the bold text attribute configuration.

27.22.4.22.4.6.4 Method of test

27.22.4.22.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

## 27.22.4.22.4.6.4.2 Procedure

**Expected Sequence 4.6 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Bold On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.6.4.2, Expected Sequence 4.6.

## 27.22.4.22.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

## 27.22.4.22.4.7 SET UP IDLE MODE TEXT (support of Text Attribute – Italic On)

## 27.22.4.22.4.7.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.22.4.7.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

## 27.22.4.22.4.7.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the italic text attribute configuration.

## 27.22.4.22.4.7.4 Method of test

## 27.22.4.22.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

## 27.22.4.22.4.7.4.2 Procedure

**Expected Sequence 4.7 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Italic On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.7.4.2, Expected Sequence 4.7.

## 27.22.4.22.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

## 27.22.4.22.4.8 SET UP IDLE MODE TEXT (support of Text Attribute – Underline On)

## 27.22.4.22.4.8.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.22.4.8.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

## 27.22.4.22.4.8.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the underline text attribute configuration.



27.22.4.22.4.8.4 Method of test

27.22.4.22.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.8.4.2 Procedure

**Expected Sequence 4.8 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Underline On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.8.4.2, Expected Sequence 4.8.

27.22.4.22.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

27.22.4.22.4.9 SET UP IDLE MODE TEXT (support of Text Attribute – Strikethrough On)

27.22.4.22.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.9.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.9.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the strikethrough text attribute configuration.

27.22.4.22.4.9.4 Method of test

27.22.4.22.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.9.4.2 Procedure

**Expected Sequence 4.9 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Strikethrough On)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.9.4.2, Expected Sequence 4.9.

27.22.4.22.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.22.4.10 SET UP IDLE MODE TEXT (support of Text Attribute – Foreground and Background Colour)

27.22.4.22.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.4.10.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

27.22.4.22.4.10.3 Test purpose

To verify that the text passed to the ME is displayed as idle mode text according to the foreground and background colour text attribute configuration.

27.22.4.22.4.10.4 Method of test

27.22.4.22.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.4.22.4.10.4.2 Procedure

**Expected Sequence 4.10 (SET UP IDLE MODE TEXT, display idle mode text, Text Attribute – Foreground and Background Colour)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.4.10.4.2, Expected Sequence 4.10.

27.22.4.22.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

27.22.4.22.5 SET UP IDLE MODE TEXT (UCS2 display in Chinese)

27.22.4.22.5.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.5.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

The Terminal shall additionally support the UCS2 facility for the coding of the Chinese character, as defined in: ISO/IEC 10646 [17a/17b].

27.22.4.22.5.3 Test purpose

To verify that the UCS2 coded text string is displayed by the ME as an idle mode text.

27.22.4.22.5.4 Method of test

27.22.4.22.5.4.1 Initial conditions

The Terminal is connected to both the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the Terminal shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.22.5.4.2 Procedure

#### **Expected Sequence 5.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text in Chinese)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.5.4.2, Expected Sequence 5.1.

27.22.4.22.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

27.22.4.22.6 SET UP IDLE MODE TEXT (UCS2 display in Katakana)

27.22.4.22.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.22.6.2 Conformance requirement

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.22, clause 6.6.22, clause 6.4.16, clause 6.6.16, clause 7.5.6, clause 6.8, clause 7.5, clause 7.5.1, clause 8.25, clause 8.70, clause 6.4.7 and clause 6.6.13.

The ME shall additionally support the UCS2 facility for the coding of the Katakana character, as defined in:

ISO/IEC 10646 [17a/17b].

27.22.4.22.6.3 Test purpose

To verify that the UCS2 coded text string is displayed by the ME as an idle mode text.

27.22.4.22.6.4 Method of test

27.22.4.22.6.4.1 Initial conditions

The ME is connected to both the UICC Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.22.6.4.2 Procedure

#### **Expected Sequence 6.1 (SET UP IDLE MODE TEXT, UCS2 alphabet text in Katakana)**

See ETSI TS 102 384 [26] in subclause 27.22.4.22.6.4.2, Expected Sequence 6.1.

27.22.4.22.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

## 27.22.4.23 RUN AT COMMAND

### 27.22.4.23.1 RUN AT COMMAND (normal)

#### 27.22.4.23.1.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.23.1.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31 and clause 8.41.
- TS 27.007 [18].

#### 27.22.4.23.1.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

#### 27.22.4.23.1.4 Method of test

##### 27.22.4.23.1.4.1 Initial conditions

The ME is connected to the USIM Simulator. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

##### 27.22.4.23.1.4.2 Procedure

#### Expected Sequence 1.1(RUN AT COMMAND, no alpha identifier presented, request IMSI)

| Step | Direction   | MESSAGE / Action   | Comments   |
|------|-------------|--|--|
| 1    | UICC → ME   | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>1.1.1                      |  |
| 2    | ME → UICC   | FETCH  |  |
| 3    | UICC → ME   | PROACTIVE COMMAND: RUN<br>AT COMMAND 1.1.1                                 | [no alpha identifier, request IMSI]                              |
| 4    | ME (→ User) | The ME may give information to<br>the user concerning what is<br>happening |  |
| 5    | ME → UICC   | TERMINAL RESPONSE: RUN AT<br>COMMAND 1.1.1                                 | [Command performed successfully, AT<br>Response containing IMSI] |

#### PROACTIVE UICC COMMAND: RUN AT COMMAND 1.1.1

Logically:

##### Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

##### Device identities

Source device: UICC  
Destination device: ME

AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 12 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | A8 |
|          | 07 | 41 | 54 | 2B | 43 | 49 | 4D | 49 |    |    |    |    |

TERMINAL RESPONSE: RUN AT COMMAND 1.1.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

### Expected Sequence 1.2 (RUN AT COMMAND, null data alpha identifier presented, request IMSI)

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>1.2.1   |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 1.2.1  | [null data alpha identifier, request IMSI]                       |
| 4    | ME        | The ME should not give any<br>information to user on the fact<br>that the ME is performing an AT<br>command |  |
| 5    | ME → UICC | TERMINAL RESPONSE: RUN<br>AT COMMAND 1.1.1  | [Command performed successfully, AT<br>Response containing IMSI] |

PROACTIVE UICC COMMAND: RUN AT COMMAND 1.2.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: ME

Alpha Identifier

null data object

AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 14 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 00 | A8 | 07 | 41 | 54 | 2B | 43 | 49 | 4D | 49 |    |    |

### Expected Sequence 1.3 (RUN AT COMMAND, alpha identifier presented, request IMSI)

| Step | Direction | MESSAGE / Action                                      | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>1.3.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 1.3.1            | [alpha identifier, request IMSI]                                 |
| 4    | ME → USER | Display "Run AT Command"                              |  |
| 5    | ME → UICC | TERMINAL RESPONSE: RUN AT<br>COMMAND 1.1.1            | [Command performed successfully, AT<br>Response containing IMSI] |

#### PROACTIVE UICC COMMAND: RUN AT COMMAND 1.3.1

Logically:

##### Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

##### Device identities

Source device: UICC  
 Destination device: ME

##### Alpha Identifier

Alpha Identifier "Run AT Command"

##### AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |                |    |    |    |    |    |    |    |    |    |                |
|----------|----|----------------|----|----|----|----|----|----|----|----|----|----------------|
| BER-TLV: | D0 | 22             | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | <sup>8</sup> 5 |
|          | 0E | 5 <sup>2</sup> | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D             |
|          | 61 | 6E             | 64 | A8 | 07 | 41 | 54 | 2B | 43 | 49 | 4D | 49             |

#### 27.22.4.23.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.3.

#### 27.22.4.23.2 RUN AT COMMAND (Icon support)

##### 27.22.4.23.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.2.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31 and clause 8.41.
- TS 27.007 [18].

## 27.22.4.23.2.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

In addition to verify that if an icon is provided by the UICC, the icon indicated in the command may be used by the ME to inform the user, in addition to, or instead of the alpha identifier, as indicated with the icon qualifier.

## 27.22.4.23.2.4 Method of test

## 27.22.4.23.2.4.1 Initial conditions

The ME is connected to the USIM Simulator. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

The ME screen shall be in its normal stand-by display.

## 27.22.4.23.2.4.2 Procedure

**Expected Sequence 2.1A (RUN AT COMMAND, basic icon self explanatory, request IMSI, successful)**

| Step | Direction | MESSAGE / Action                                      | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>2.1.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 2.1.1            | [BASIC-ICON, self-explanatory, request IMSI]                     |
| 4    | ME → USER | Display BASIC ICON without the<br>alpha identifier    |  |
| 5    | ME → UICC | TERMINAL RESPONSE: RUN AT<br>COMMAND 2.1.1A           | [Command performed successfully, AT<br>response containing IMSI] |

## PROACTIVE COMMAND: RUN AT COMMAND 2.1.1

Logically:

## Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: ME

## Alpha Identifier

Alpha identifier: "Basic Icon"

## AT Command

AT Command string: "AT+CIMI"

## Icon identifier:

Icon qualifier: icon is self-explanatory  
Icon identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 0A | 42 | 61 | 73 | 69 | 63 | 20 | 49 | 63 | 6F | 6E | A8 |
|          | 07 | 41 | 54 | 2B | 43 | 49 | 4D | 49 | 9E | 02 | 00 | 01 |

TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

**Expected Sequence 2.1B (RUN AT COMMAND, basic icon self explanatory, request IMSI, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action                                      | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>2.1.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 2.1.1            | [BASIC-ICON, self-explanatory, request IMSI]   |
| 4    | ME → USER | Display 'Basic Icon' without the<br>BASIC-ICON        |  |
| 5    | ME → UICC | TERMINAL RESPONSE: RUN AT<br>COMMAND 2.1.1B           | [Command performed but requested icon<br>could not be displayed, AT response<br>containing IMSI] |

TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully, but requested icon could not be displayed

AT Response

AT Response string: IMSI

Coding:



|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

**Expected Sequence 2.2A (RUN AT COMMAND, colour icon self explanatory, request IMSI, successful)**

| Step | Direction | MESSAGE / Action                                      | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>2.2.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 2.2.1            | [COLOUR-ICON, self-explanatory, request<br>IMSI]                 |
| 4    | ME → USER | Display COLOUR-ICON without<br>the alpha identifier   |  |
| 5    | ME → UICC | TERMINAL RESPONSE: RUN AT<br>COMMAND 2.1.1A           | [Command performed successfully, AT<br>response containing IMSI] |

**PROACTIVE COMMAND: RUN AT COMMAND 2.2.1**

Logically:

Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

Device identities

Source device: UICC  
Destination device: ME

Alpha Identifier

Alpha identifier: "Colour Icon"

AT Command

AT Command string: "AT+CIMI"

Icon identifier:

Icon qualifier: icon is self-explanatory  
Icon identifier: record 2 in EF<sub>(IMG)</sub>

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 23 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | A8 |
|          | 0B | 43 | 6F | 6C | 6F | 75 | 72 | 20 | 49 | 63 | 6F | 6E |
|          | A8 | 07 | 41 | 54 | 2B | 43 | 49 | 4D | 49 | 9E | 02 | 00 |
|          | 02 |    |    |    |    |    |    |    |    |    |    |    |

**Expected Sequence 2.2B (RUN AT COMMAND, colour icon self explanatory, request IMSI, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action                                      | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>2.2.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 2.2.1            | [COLOUR-ICON, self-explanatory, request<br>IMSI]   |
| 4    | ME → USER | Display 'Colour Icon' without the<br>COLOUR-ICON      |  |
| 5    | ME → UICC | TERMINAL RESPONSE: RUN AT<br>COMMAND 2.1.1B           | [Command performed but requested icon<br>could not be displayed, AT response<br>containing IMSI] |

**Expected Sequence 2.3A (RUN AT COMMAND, basic icon non self-explanatory, request IMSI, successful)**

| Step | Direction | MESSAGE / Action                                      | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>2.3.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 2.3.1            | [BASIC-ICON, non self-explanatory, request<br>IMSI]              |
| 4    | ME → USER | Display "Basic Icon" and BASIC-<br>ICON               |  |
| 5    | ME → UICC | TERMINAL RESPONSE: RUN AT<br>COMMAND 2.1.1A           | [Command performed successfully, AT<br>response containing IMSI] |

PROACTIVE COMMAND: RUN AT COMMAND 2.3.1

Logically:

Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

Device identities

Source device: UICC  
Destination device: ME

Alpha Identifier

Alpha identifier: "Basic Icon"

AT Command

AT Command string: "AT+CIMI"

Icon identifier

Icon qualifier: icon is non self-explanatory  
Icon identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 0A | 42 | 61 | 73 | 69 | 63 | 20 | 49 | 63 | 6F | 6E | A8 |
|          | 07 | 41 | 54 | 2B | 43 | 49 | 4D | 49 | 9E | 02 | 01 | 01 |

**Expected Sequence 2.3B (RUN AT COMMAND, basic icon non self-explanatory, request IMSI, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action                                      | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>2.3.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 2.3.1            | [BASIC-ICON, non self-explanatory, request<br>IMSI]  |
| 4    | ME → USER | Display "Basic Icon" without<br>BASIC-ICON            |  |
| 5    | ME → UICC | TERMINAL RESPONSE: RUN AT<br>COMMAND 2.1.1B           | [Command performed but requested icon<br>could not be displayed, AT response<br>containing IMSI] |

**Expected Sequence 2.4A (RUN AT COMMAND, colour icon non self-explanatory, request IMSI, successful)**

| Step | Direction | MESSAGE / Action                                      | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>2.4.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 2.4.1            | [COLOUR-ICON, non self-explanatory,<br>request IMSI]             |
| 4    | ME → USER | Display "Colour Icon" and<br>COLOUR-ICON              |  |
| 5    | ME → UICC | TERMINAL RESPONSE: RUN AT<br>COMMAND 2.1.1A           | [Command performed successfully, AT<br>response containing IMSI] |

PROACTIVE COMMAND: RUN AT COMMAND 2.4.1

Logically:

Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

Device identities

Source device: UICC  
Destination device: ME

Alpha Identifier

Alpha identifier: "Colour Icon"

AT Command

AT Command string: "AT+CIMI"

Icon identifier:

Icon qualifier: icon is self-explanatory  
Icon identifier: record 2 in EF<sub>(IMG)</sub>

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 23 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 0B | 43 | 6F | 6C | 6F | 75 | 72 | 20 | 49 | 63 | 6F | 6E |
|          | A8 | 07 | 41 | 54 | 2B | 43 | 49 | 4D | 49 | 9E | 02 | 01 |
|          | 02 |    |    |    |    |    |    |    |    |    |    |    |

**Expected Sequence 2.4B (RUN AT COMMAND, colour icon non self-explanatory, request IMSI, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action                                      | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>2.4.1 |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 2.4.1            | [COLOUR-ICON, non self-explanatory,<br>request IMSI]   |
| 4    | ME → USER | Display "Colour Icon" without<br>COLOUR-ICON          |  |
| 5    | ME → UICC | TERMINAL RESPONSE: RUN AT<br>COMMAND 2.1.1B           | [Command performed but requested icon<br>could not be displayed, AT response<br>containing IMSI] |

**Expected Sequence 2.5 (RUN AT COMMAND, basic icon non self-explanatory, no alpha identifier presented)**

| Step | Direction | MESSAGE / Action                                      | Comments                            |
|------|-----------|---|-------------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>2.5.1 |                                     |
| 2    | ME → UICC | FETCH   |                                     |
| 3    | UICC → ME | PROACTIVE COMMAND: RUN<br>AT COMMAND 2.5.1            | [BASIC-ICON, non self-explanatory]  |
| 4    | ME → UICC | TERMINAL RESPONSE: RUN<br>AT COMMAND 2.5.1            | [Command data not understood by ME] |

**PROACTIVE COMMAND: RUN AT COMMAND 2.5.1**

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: ME

AT Command

AT Command string: "AT+CIMI"

Icon identifier

Icon qualifier: icon is non self-explanatory  
 Icon identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 16 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | A8 |
|          | 07 | 41 | 54 | 2B | 43 | 49 | 4D | 49 | 9E | 02 | 01 | 01 |

**TERMINAL RESPONSE: RUN AT COMMAND 2.5.1**

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: ME

Result

General Result: Command data not understood by ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 32 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**27.22.4.23.2.5 Test requirement**

The ME shall operate in the manner defined in expected sequences 2.1 to 2.5.

### 27.22.4.23.3 RUN AT COMMAND (support of Text Attribute)

#### 27.22.4.23.3.1 RUN AT COMMAND (support of Text Attribute – Left Alignment)

##### 27.22.4.23.3.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.3.1.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

##### 27.22.4.23.3.1.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with left alignment text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

##### 27.22.4.23.3.1.4 Method of test

###### 27.22.4.23.3.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.1.4.2 Procedure

**Expected Sequence 3.1(RUN AT COMMAND, with alpha identifier presented, request IMSI, Text Attribute – Left Alignment)**

| Step | Direction      | MESSAGE / Action                                      | Comments  |
|------|----------------|---|---|
| 1    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.1.1 |   |
| 2    | ME → UICC      | FETCH   |   |
| 3    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.1.1            |   |
| 4    | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with left alignment, request IMSI]   |
| 5    | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.1.1            | [Command performed successfully, AT Response containing IMSI]   |
| 6    | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |
| 7    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.1.2 |   |
| 8    | ME → UICC      | FETCH   |   |
| 9    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.1.2            |   |
| 10   | ME (→<br>USER) | Display "Run AT Command 2"                            | [Message shall be formatted without left alignment, request IMSI. Remark: If left alignment is the ME"s default alignment as declared in table A.2/16, no alignment change will take place] |
| 11   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.1.1            | [Command performed successfully, AT Response containing IMSI]   |
| 12   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.1.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: ME

Alpha Identifier

Alpha Identifier "Run AT Command 1"

AT Command

AT Command string: "AT+CIMI"

Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 31 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.1.2

Logically:

## Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 2"

## AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 32 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: RUN AT COMMAND 3.1.1

Logically:

## Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

## 27.22.4.23.3.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

## 27.22.4.23.3.2 RUN AT COMMAND (support of Text Attribute – Center Alignment)

## 27.22.4.23.3.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.23.3.2.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- TS 27.007 [18].

The terminal shall support the text attribute.

#### 27.22.4.23.3.2.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with center alignment text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

#### 27.22.4.23.3.2.4 Method of test

##### 27.22.4.23.3.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

##### 27.22.4.23.3.2.4.2 Procedure

#### Expected Sequence 3.2(RUN AT COMMAND, with alpha identifier presented, request IMSI, Text Attribute – Center Alignment)

| Step | Direction      | MESSAGE / Action                                      | Comments  |
|------|----------------|---|---|
| 1    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.2.1 |   |
| 2    | ME → UICC      | FETCH   |   |
| 3    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.2.1            |   |
| 4    | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with center alignment, request IMSI]   |
| 5    | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.2.1            | [Command performed successfully, AT Response containing IMSI]   |
| 6    | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |
| 7    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.2.2 |   |
| 8    | ME → UICC      | FETCH   |   |
| 9    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.2.2            |   |
| 10   | ME (→<br>USER) | Display "Run AT Command 2"                            | [Message shall be formatted without center alignment, request IMSI. Remark: If center alignment is the ME"s default alignment as declared in table A.2/16, no alignment change will take place] |
| 11   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.2.1            | [Command performed successfully, AT Response containing IMSI]   |
| 12   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.2.1

Logically:

Command details

Command number: 1



Command type: RUN AT COMMAND  
 Command qualifier: "00"  
 Device identities  
   Source device: UICC  
   Destination device: ME  
 Alpha Identifier  
   Alpha Identifier "Run AT Command 1"  
 AT Command  
   AT Command string: "AT+CIMI"  
 Text Attribute  
   Formatting position: 0  
   Formatting length: 16  
   Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
   Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 31 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 01 | B4 |    |    |    |    |

#### PROACTIVE UICC COMMAND: RUN AT COMMAND 3.2.2

Logically:

Command details  
   Command number: 1  
   Command type: RUN AT COMMAND  
   Command qualifier: "00"  
 Device identities  
   Source device: UICC  
   Destination device: ME  
 Alpha Identifier  
   Alpha Identifier "Run AT Command 2"  
 AT Command  
   AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 32 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 |    |    |    |    |    |    |    |    |    |    |

#### TERMINAL RESPONSE: RUN AT COMMAND 3.2.1

Logically:

Command details  
   Command number: 1  
   Command type: RUN AT COMMAND  
   Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully  
 AT Response  
   AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

#### 27.22.4.23.3.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.2.

#### 27.22.4.23.3.3 RUN AT COMMAND (support of Text Attribute – Right Alignment)

##### 27.22.4.23.3.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.3.3.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

##### 27.22.4.23.3.3.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with right alignment text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

##### 27.22.4.23.3.3.4 Method of test

###### 27.22.4.23.3.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.3.4.2 Procedure

**Expected Sequence 3.3(RUN AT COMMAND, with alpha identifier presented, request IMSI, Text Attribute – Right Alignment)**

| Step | Direction   | MESSAGE / Action                                      | Comments  |
|------|-------------|---|---|
| 1    | UICC → ME   | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.3.1 |   |
| 2    | ME → UICC   | FETCH   |   |
| 3    | UICC → ME   | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.3.1            |   |
| 4    | ME (→ USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with right alignment, request IMSI]  |
| 5    | ME → UICC   | TERMINAL RESPONSE: RUN<br>AT COMMAND 3.3.1            | [Command performed successfully, AT Response containing IMSI]   |
| 6    | UICC → ME   | PROACTIVE UICC SESSION<br>ENDED                       |   |
| 7    | UICC → ME   | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.3.2 |   |
| 8    | ME → UICC   | FETCH   |   |
| 9    | UICC → ME   | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.3.2            |   |
| 10   | ME (→ USER) | Display "Run AT Command 2"                            | [Message shall be formatted without right alignment, request IMSI. Remark: If right alignment is the ME"s default alignment as declared in table A.2/16, no alignment change will take place] |
| 11   | ME → UICC   | TERMINAL RESPONSE: RUN<br>AT COMMAND 3.3.1            | [Command performed successfully, AT Response containing IMSI]   |
| 12   | UICC → ME   | PROACTIVE UICC SESSION<br>ENDED                       |   |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.3.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: ME

Alpha Identifier

Alpha Identifier "Run AT Command 1"

AT Command

AT Command string: "AT+CIMI"

Text Attribute

Formatting position: 0  
 Formatting length: 16  
 Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 31 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 02 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.3.2

Logically:

## Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 2"

## AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 32 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: RUN AT COMMAND 3.3.1

Logically:

## Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

## 27.22.4.23.3.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.3.

## 27.22.4.23.3.4 RUN AT COMMAND (support of Text Attribute – Large Font Size)

## 27.22.4.23.3.4.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.23.3.4.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.

- TS 27.007 [18].

The terminal shall support the text attribute.

#### 27.22.4.23.3.4.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with large font size as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

#### 27.22.4.23.3.4.4 Method of test

##### 27.22.4.23.3.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

## 27.22.4.23.3.4.4.2 Procedure

**Expected Sequence 3.4(RUN AT COMMAND, with alpha identifier presented, request IMSI, Text Attribute – Large Font Size)**

| Step | Direction      | MESSAGE / Action                                      | Comments   |
|------|----------------|---|--|
| 1    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.4.1 |  |
| 2    | ME → UICC      | FETCH   |  |
| 3    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.4.1            |  |
| 4    | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with large font<br>size, request IMSI]  |
| 5    | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.4.1            | [Command performed successfully, AT<br>Response containing IMSI]       |
| 6    | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 7    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.4.2 |  |
| 8    | ME → UICC      | FETCH   |  |
| 9    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.4.2            |  |
| 10   | ME (→<br>USER) | Display "Run AT Command 2"                            | [alpha identifier is displayed with normal font<br>size, request IMSI] |
| 11   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.4.1            | [Command performed successfully, AT<br>Response containing IMSI]       |
| 12   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 13   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.4.1 |  |
| 14   | ME → UICC      | FETCH   |  |
| 15   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.4.1            |  |
| 16   | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with large font<br>size, request IMSI]  |
| 17   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.4.1            | [Command performed successfully, AT<br>Response containing IMSI]       |
| 18   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 19   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.4.3 |  |
| 20   | ME → UICC      | FETCH   |  |
| 21   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.4.3            |  |
| 22   | ME (→<br>USER) | Display "Run AT Command 3"                            | [alpha identifier is displayed with normal font<br>size, request IMSI] |
| 23   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.4.1            | [Command performed successfully, AT<br>Response containing IMSI]       |
| 24   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.4.1

Logically:

## Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 1"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Large Font, Bold Off, Italic Off, Underline Off,  
Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 31 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 04 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.4.2

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 2"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 32 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.4.3

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 3"

## AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 33 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: RUN AT COMMAND 3.4.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

#### 27.22.4.23.3.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.4.

#### 27.22.4.23.3.5 RUN AT COMMAND (support of Text Attribute – Small Font Size)

##### 27.22.4.23.3.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.3.5.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

##### 27.22.4.23.3.5.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with small font size as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.



27.22.4.23.3.5.4 Method of test

27.22.4.23.3.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

## 27.22.4.23.3.5.4.2 Procedure

**Expected Sequence 3.5(RUN AT COMMAND, with alpha identifier presented, request IMSI, Text Attribute – Small Font Size)**

| Step | Direction      | MESSAGE / Action                                      | Comments   |
|------|----------------|---|--|
| 1    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.5.1 |  |
| 2    | ME → UICC      | FETCH   |  |
| 3    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.5.1            |  |
| 4    | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with small font<br>size, request IMSI]  |
| 5    | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.5.1            | [Command performed successfully, AT<br>Response containing IMSI]       |
| 6    | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 7    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.5.2 |  |
| 8    | ME → UICC      | FETCH   |  |
| 9    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.5.2            |  |
| 10   | ME (→<br>USER) | Display "Run AT Command 2"                            | [alpha identifier is displayed with normal font<br>size, request IMSI] |
| 11   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.5.1            | [Command performed successfully, AT<br>Response containing IMSI]       |
| 12   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 13   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.5.1 |  |
| 14   | ME → UICC      | FETCH   |  |
| 15   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.5.1            |  |
| 16   | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with small font<br>size, request IMSI]  |
| 17   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.5.1            | [Command performed successfully, AT<br>Response containing IMSI]       |
| 18   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 19   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.5.3 |  |
| 20   | ME → UICC      | FETCH   |  |
| 21   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.5.3            |  |
| 22   | ME (→<br>USER) | Display "Run AT Command 3"                            | [alpha identifier is displayed with normal font<br>size, request IMSI] |
| 23   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.5.1            | [Command performed successfully, AT<br>Response containing IMSI]       |
| 24   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.5.1

Logically:

## Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 1"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Small Font, Bold Off, Italic Off, Underline Off,

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 31 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 08 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.5.2

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 2"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 32 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.5.3

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 3"

## AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 33 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: RUN AT COMMAND 3.5.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

#### 27.22.4.23.3.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.5.

#### 27.22.4.23.3.6 RUN AT COMMAND (support of Text Attribute – Bold On)

##### 27.22.4.23.3.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.3.6.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

##### 27.22.4.23.3.6.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with bold text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.6.4 Method of test

27.22.4.23.3.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

## 27.22.4.23.3.6.4.2 Procedure

**Expected Sequence 3.6(RUN AT COMMAND, with alpha identifier presented, request IMSI, Text Attribute – Bold On)**

| Step | Direction      | MESSAGE / Action                                      | Comments   |
|------|----------------|---|--|
| 1    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.6.1 |  |
| 2    | ME → UICC      | FETCH   |  |
| 3    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.6.1            |  |
| 4    | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with bold on,<br>request IMSI]    |
| 5    | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.6.1            | [Command performed successfully, AT<br>Response containing IMSI] |
| 6    | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 7    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.6.2 |  |
| 8    | ME → UICC      | FETCH   |  |
| 9    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.6.2            |  |
| 10   | ME (→<br>USER) | Display "Run AT Command 2"                            | [alpha identifier is displayed with bold off,<br>request IMSI]   |
| 11   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.6.1            | [Command performed successfully, AT<br>Response containing IMSI] |
| 12   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 13   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.6.1 |  |
| 14   | ME → UICC      | FETCH   |  |
| 15   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.6.1            |  |
| 16   | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with bold on,<br>request IMSI]    |
| 17   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.6.1            | [Command performed successfully, AT<br>Response containing IMSI] |
| 18   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 19   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.6.3 |  |
| 20   | ME → UICC      | FETCH   |  |
| 21   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.6.3            |  |
| 22   | ME (→<br>USER) | Display "Run AT Command 3"                            | [alpha identifier is displayed with bold off,<br>request IMSI]   |
| 23   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.6.1            | [Command performed successfully, AT<br>Response containing IMSI] |
| 24   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.6.1

Logically:

## Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 1"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 31 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 10 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.6.2

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 2"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 32 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.6.3

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 3"

## AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 33 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: RUN AT COMMAND 3.6.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

#### 27.22.4.23.3.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.6.

#### 27.22.4.23.3.7 RUN AT COMMAND (support of Text Attribute – Italic On)

##### 27.22.4.23.3.7.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.3.7.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

##### 27.22.4.23.3.7.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with italic text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.



27.22.4.23.3.7.4 Method of test

27.22.4.23.3.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

## 27.22.4.23.3.7.4.2 Procedure

**Expected Sequence 3.7(RUN AT COMMAND, with alpha identifier presented, request IMSI, Text Attribute – Italic On)**

| Step | Direction      | MESSAGE / Action                                      | Comments   |
|------|----------------|---|--|
| 1    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.7.1 |  |
| 2    | ME → UICC      | FETCH   |  |
| 3    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.7.1            |  |
| 4    | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with italic on,<br>request IMSI]  |
| 5    | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.7.1            | [Command performed successfully, AT<br>Response containing IMSI] |
| 6    | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 7    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.7.2 |  |
| 8    | ME → UICC      | FETCH   |  |
| 9    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.7.2            |  |
| 10   | ME (→<br>USER) | Display "Run AT Command 2"                            | [alpha identifier is displayed with italic off,<br>request IMSI] |
| 11   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.7.1            | [Command performed successfully, AT<br>Response containing IMSI] |
| 12   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 13   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.7.1 |  |
| 14   | ME → UICC      | FETCH   |  |
| 15   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.7.1            |  |
| 16   | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with italic on,<br>request IMSI]  |
| 17   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.7.1            | [Command performed successfully, AT<br>Response containing IMSI] |
| 18   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |
| 19   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.7.3 |  |
| 20   | ME → UICC      | FETCH   |  |
| 21   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.7.3            |  |
| 22   | ME (→<br>USER) | Display "Run AT Command 3"                            | [alpha identifier is displayed with italic off,<br>request IMSI] |
| 23   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.7.1            | [Command performed successfully, AT<br>Response containing IMSI] |
| 24   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |  |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.7.1

Logically:

## Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 1"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 31 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 20 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.7.2

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 2"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 32 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.7.3

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 3"

## AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 33 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: RUN AT COMMAND 3.7.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

#### 27.22.4.23.3.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.7.

#### 27.22.4.23.3.8 RUN AT COMMAND (support of Text Attribute – Underline On)

##### 27.22.4.23.3.8.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.3.8.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

##### 27.22.4.23.3.8.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with underline text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.8.4 Method of test

27.22.4.23.3.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

## 27.22.4.23.3.8.4.2 Procedure

**Expected Sequence 3.8(RUN AT COMMAND, with alpha identifier presented, request IMSI, Text Attribute – Underline On)**

| Step | Direction      | MESSAGE / Action                                      | Comments  |
|------|----------------|---|---|
| 1    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.8.1 |   |
| 2    | ME → UICC      | FETCH   |   |
| 3    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.8.1            |   |
| 4    | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with underline on,<br>request IMSI]  |
| 5    | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.8.1            | [Command performed successfully, AT<br>Response containing IMSI]    |
| 6    | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |
| 7    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.8.2 |   |
| 8    | ME → UICC      | FETCH   |   |
| 9    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.8.2            |   |
| 10   | ME (→<br>USER) | Display "Run AT Command 2"                            | [alpha identifier is displayed with underline off,<br>request IMSI] |
| 11   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.8.1            | [Command performed successfully, AT<br>Response containing IMSI]    |
| 12   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |
| 13   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.8.1 |   |
| 14   | ME → UICC      | FETCH   |   |
| 15   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.8.1            |   |
| 16   | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with underline on,<br>request IMSI]  |
| 17   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.8.1            | [Command performed successfully, AT<br>Response containing IMSI]    |
| 18   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |
| 19   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.8.3 |   |
| 20   | ME → UICC      | FETCH   |   |
| 21   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.8.3            |   |
| 22   | ME (→<br>USER) | Display "Run AT Command 3"                            | [alpha identifier is displayed with underline off,<br>request IMSI] |
| 23   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.8.1            | [Command performed successfully, AT<br>Response containing IMSI]    |
| 24   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.8.1

Logically:

## Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 1"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 31 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 40 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.8.2

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 2"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 32 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.8.3

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 3"

## AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 33 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: RUN AT COMMAND 3.8.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

#### 27.22.4.23.3.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.8.

#### 27.22.4.23.3.9 RUN AT COMMAND (support of Text Attribute – Strikethrough On)

##### 27.22.4.23.3.9.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.3.9.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

##### 27.22.4.23.3.9.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with strikethrough text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.



27.22.4.23.3.9.4 Method of test

27.22.4.23.3.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

## 27.22.4.23.3.9.4.2 Procedure

**Expected Sequence 3.9(RUN AT COMMAND, with alpha identifier presented, request IMSI, Text Attribute – Strikethrough On)**

| Step | Direction      | MESSAGE / Action                                      | Comments  |
|------|----------------|---|---|
| 1    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.9.1 |   |
| 2    | ME → UICC      | FETCH   |   |
| 3    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.9.1            |   |
| 4    | ME (→<br>USER) | Display "Run AT Command 1"                            | [alpha identifier is displayed with strikethrough<br>on, request IMSI]  |
| 5    | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.9.1            | [Command performed successfully, AT<br>Response containing IMSI]        |
| 6    | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |
| 7    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.9.2 |   |
| 8    | ME → UICC      | FETCH   |   |
| 9    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.9.2            |   |
| 10   | ME (→<br>USER) | Display "Run AT Command 2"                            | [alpha identifier is displayed with strikethrough<br>off, request IMSI] |
| 11   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.9.1            | [Command performed successfully, AT<br>Response containing IMSI]        |
| 12   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |
| 13   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.9.1 |   |
| 14   | ME → UICC      | FETCH   |   |
| 15   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.9.1            |   |
| 16   | ME (→<br>USER) | Display " Run AT Command 1 "                          | [alpha identifier is displayed with strikethrough<br>on, request IMSI]  |
| 17   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.9.1            | [Command performed successfully, AT<br>Response containing IMSI]        |
| 18   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |
| 19   | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.9.3 |   |
| 20   | ME → UICC      | FETCH   |   |
| 21   | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.9.3            |   |
| 22   | ME (→<br>USER) | Display "Run AT Command 3"                            | [alpha identifier is displayed with strikethrough<br>off, request IMSI] |
| 23   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.9.1            | [Command performed successfully, AT<br>Response containing IMSI]        |
| 24   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                       |   |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.9.1

Logically:

## Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 1"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 31 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 80 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.9.2

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 2"

## AT Command

AT Command string: "AT+CIMI"

## Text Attribute

Formatting position: 0

Formatting length: 16

Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 32 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |    |    |

## PROACTIVE UICC COMMAND: RUN AT COMMAND 3.9.3

## Logically:

## Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

## Device identities

Source device: UICC

Destination device: ME

## Alpha Identifier

Alpha Identifier "Run AT Command 3"

## AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 33 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: RUN AT COMMAND 3.9.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

27.22.4.23.3.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.9.

27.22.4.23.3.10 RUN AT COMMAND (support of Text Attribute – Foreground and Background Colour)

27.22.4.23.3.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.23.3.10.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

27.22.4.23.3.10.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with foreground and background colour text attribute as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

27.22.4.23.3.10.4 Method of test

27.22.4.23.3.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

27.22.4.23.3.10.4.2 Procedure

**Expected Sequence 3.10(RUN AT COMMAND, with alpha identifier presented, request IMSI, Text Attribute – Foreground and Background Colour)**

| Step | Direction      | MESSAGE / Action                                       | Comments  |
|------|----------------|--|---|
| 1    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.10.1 |   |
| 2    | ME → UICC      | FETCH  |   |
| 3    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.10.1            |   |
| 4    | ME (→<br>USER) | Display "Run AT Command 1"                             | [alpha identifier is displayed with foreground<br>and background colour according to the text<br>attribute configuration, request IMSI] |
| 5    | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.10.1            | [Command performed successfully, AT<br>Response containing IMSI]  |
| 6    | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                        |   |
| 7    | UICC → ME      | PROACTIVE COMMAND<br>PENDING: RUN AT COMMAND<br>3.10.2 |   |
| 8    | ME → UICC      | FETCH  |   |
| 9    | UICC → ME      | PROACTIVE COMMAND: RUN<br>AT COMMAND 3.10.2            |   |
| 10   | ME (→<br>USER) | Display "Run AT Command 2"                             | [alpha identifier is displayed with ME's default<br>foreground and background colour, request<br>IMSI]                                  |
| 11   | ME → UICC      | TERMINAL RESPONSE: RUN AT<br>COMMAND 3.10.1            | [Command performed successfully, AT<br>Response containing IMSI]  |
| 12   | UICC → ME      | PROACTIVE UICC SESSION<br>ENDED                        |   |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.10.1

Logically:

Command details

Command number: 1  
Command type: RUN AT COMMAND  
Command qualifier: "00"

Device identities

Source device: UICC  
Destination device: ME

Alpha Identifier

Alpha Identifier "Run AT Command 1"

AT Command

AT Command string: "AT+CIMI"

Text Attribute

Formatting position: 0

Formatting length: 16  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 2A | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 31 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 | D0 | 04 | 00 | 10 | 00 | B4 |    |    |    |    |

PROACTIVE UICC COMMAND: RUN AT COMMAND 3.10.2

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: ME

Alpha Identifier

Alpha Identifier "Run AT Command 2"

AT Command

AT Command string: "AT+CIMI"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 24 | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 81 | 82 | 85 |
|          | 10 | 52 | 75 | 6E | 20 | 41 | 54 | 20 | 43 | 6F | 6D | 6D |
|          | 61 | 6E | 64 | 20 | 32 | A8 | 07 | 41 | 54 | 2B | 43 | 49 |
|          | 4D | 49 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: RUN AT COMMAND 3.10.1

Logically:

Command details

Command number: 1  
 Command type: RUN AT COMMAND  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

AT Response

AT Response string: IMSI

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 34 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | A9 | 08 | 09 | 10 | 10 | 10 | 32 | 54 | 76 | 98 |    |    |

27.22.4.23.3.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.10.

#### 27.22.4.23.4 RUN AT COMMAND (UCS2 display in Cyrillic)

##### 27.22.4.23.4.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.4.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

##### 27.22.4.23.4.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with UCS2 alpha identifier as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

##### 27.22.4.23.4.4 Method of test

###### 27.22.4.23.4.4.1 Initial conditions

The ME is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

###### 27.22.4.23.4.4.2 Procedure

#### **Expected Sequence 4.1(RUN AT COMMAND, alpha identifier presented coded with UCS2 in Cyrillic, request ME Manufacturer ID)**

See ETSI TS 102 384 [26] in subclause 27.22.4.23.4.4.2, Expected Sequence 4.1.

##### 27.22.4.23.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

#### 27.22.4.23.5 RUN AT COMMAND (UCS2 display in Chinese)

##### 27.22.4.23.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.5.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

#### 27.22.4.23.5.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with UCS2 alpha identifier as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

#### 27.22.4.23.5.4 Method of test

##### 27.22.4.23.5.4.1 Initial conditions

The ME is connected to the UICC Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

##### 27.22.4.23.5.4.2 Procedure

#### **Expected Sequence 5.1(RUN AT COMMAND, alpha identifier presented coded with UCS2 in Chinese, request ME Manufacturer ID)**

See ETSI TS 102 384 [26] in subclause 27.22.4.23.5.4.2, Expected Sequence 5.1.

#### 27.22.4.23.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

#### 27.22.4.23.6 RUN AT COMMAND (UCS2 display in Katakana)

##### 27.22.4.23.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.23.6.2 Conformance requirement

The ME shall support the Proactive UICC: RUN AT COMMAND facility as defined in:

- TS 31.111 [15] clause 6.4.23, clause 6.6.23, clause 5.2, clause 6.8, clause 8.6, clause 8.7, clause 8.2, clause 8.40, clause 8.31, clause 8.41 and clause 8.70.
- TS 27.007 [18].

The terminal shall support the text attribute.

#### 27.22.4.23.6.3 Test purpose

To verify that the ME responds to an AT Command contained within a RUN AT COMMAND with UCS2 alpha identifier as though it were initiated by an attached TE, and returns an AT Response within a TERMINAL RESPONSE to the UICC.

#### 27.22.4.23.6.4 Method of test

##### 27.22.4.23.6.4.1 Initial conditions

The ME is connected to the UICC Simulator.



The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

Prior to the test the ME shall be connected to the TE.

The TA-TE interface is set to 8-bit operation.

#### 27.22.4.23.6.4.2 Procedure

### **Expected Sequence 6.1(RUN AT COMMAND, alpha identifier presented coded with UCS2 in Katakana, request ME Manufacturer ID)**

See ETSI TS 102 384 [26] in subclause 27.22.4.23.6.4.2, Expected Sequence 6.1.

#### 27.22.4.23.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

### 27.22.4.24 SEND DTMF

#### 27.22.4.24.1 SEND DTMF (Normal)

##### 27.22.4.24.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.24.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

##### 27.22.4.24.1.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that if an alpha identifier is provided by the UICC and is a null data object the ME does not give any information to the user on the fact that the ME is performing a SEND DTMF command.

##### 27.22.4.24.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.1.4. 2 Procedure

**Expected Sequence 1.1 (SEND DTMF, normal)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments                           |
|------|-----------|--|------------------------------------|
| 1    | User → ME | Set up a call to "+0123456789"   |                                    |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |                                    |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |                                    |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 1.1.1  |                                    |
| 5    | ME → UICC | FETCH  |                                    |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 1.1.1   |                                    |
| 7    | ME → USER | May give information to the user concerning what is happening. Do not locally generate audible DTMF tones and play them to the user. |                                    |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]                              |
| 9    | ME        |  | No DTMF sending for 3 seconds ±20% |
| 10   | ME → USS  | Start DTMF 1.2   | ["2"]                              |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 1.1.1   | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED   |                                    |
| 13   | User → ME | End the call   |                                    |

PROACTIVE COMMAND: SEND DTMF 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network  
 DTMF String: "1" pause "2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | AC |
|          | 02 | C1 | F2 |    |    |    |    |    |    |    |    |    |

Start DTMF 1.1

Logically:

DTMF String: "1"

Start DTMF 1.2

Logically:

DTMF String: "2"

TERMINAL RESPONSE: SEND DTMF 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.2 (SEND DTMF, containing alpha identifier)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | User → ME | Set up a call to "+0123456789"   |                                  |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |                                  |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |                                  |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 1.2.1  |                                  |
| 5    | ME → UICC | FETCH  |                                  |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 1.2.1   |                                  |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | Alpha identifier                 |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]                            |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]                            |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]                            |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]                            |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]                            |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]                            |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]                            |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]                            |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]                            |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]                            |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 1.1.1   | [Command performed successfully] |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |                                  |
| 20   | User → ME | End the call   |                                  |

## PROACTIVE COMMAND: SEND DTMF 1.2.1

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Send DTMF"  
 DTMF String: "1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1B | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 09 | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | AC | 05 |
|          | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |    |    |

Start DTMF 1.3

Logically:

DTMF String: "3"

Start DTMF 1.4

Logically:

DTMF String: "4"

Start DTMF 1.5

Logically:

DTMF String: "5"

Start DTMF 1.6

Logically:

DTMF String: "6"

Start DTMF 1.7

Logically:

DTMF String: "7"

Start DTMF 1.8

Logically:

DTMF String: "8"

Start DTMF 1.9

Logically:

DTMF String: "9"

Start DTMF 1.10

Logically:

DTMF String: "0"

### **Expected Sequence 1.3 (SEND DTMF, containing alpha identifier with null data object)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action  | Comments                               |
|------|-----------|---|--|
| 1    | User → ME | Set up a call to "+0123456789"  |  |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"   |  |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.   |  |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 1.3.1   |  |
| 5    | ME → UICC | FETCH   |  |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 1.3.1  | Alpha identifier with null data object |
| 7    | ME → USER | Do not give any information to the user on the fact that the ME is performing a SEND DTMF command.<br>Do not locally generate audible DTMF tones and play them to the user. |  |
| 8    | ME → USS  | Start DTMF 1.1  | ["1"]                                  |
| 9    | ME        |   | No DTMF sending for 30 seconds ±20%    |
| 10   | ME → USS  | Start DTMF 1.2  | ["2"]                                  |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 1.1.1  | [Command performed successfully]       |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 13   | User → ME | End the call  |  |

PROACTIVE COMMAND: SEND DTMF 1.3.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "" (null data object)  
 DTMF String: "1" pause pause pause pause pause pause pause "2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 13 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 00 | AC | 06 | C1 | CC | CC | CC | CC | 2C |    |    |    |

**Expected Sequence 1.4 (SEND DTMF, mobile is not in a speech call)**

| Step | Direction | MESSAGE / Action                              | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 1.1.1 | [Mobile is not in a speech call]                             |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 1.1.1            |  |
| 4    | ME → UICC | TERMINAL RESPONSE: SEND DTMF 1.4.1            | [ME currently unable to process command, not in speech call] |
| 5    | UICC → ME | PROACTIVE UICC SESSION ENDED                  |  |

TERMINAL RESPONSE: SEND DTMF 1.4.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: ME currently unable to process command  
 Additional information: Not in speech call

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 02 | 20 |
|          | 07 |    |    |    |    |    |    |    |    |    |    |    |

## 27.22.4.24.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.4.

## 27.22.4.24.2 SEND DTMF (Display of icons)

## 27.22.4.24.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.24.2.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44, clause 8.31 and clause 6.5.4.

## 27.22.4.24.2.3 Test purpose

To verify that after a call has been successfully established the ME send the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME do not locally generate audible DTMF tones and play them to the user.

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the icons which are referred to in the contents of the SEND DTMF proactive UICC command.

## 27.22.4.24.2.4 Method of test

## 27.22.4.24.2.4.1 Initial conditions

The ME is connected to the SIM Simulator and only connected to the System Simulator if the System Simulator is mentioned in the sequence table. Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

The elementary files are coded as Toolkit default.

## 27.22.4.24.2.4.2 Procedure

**Expected Sequence 2.1A (SEND DTMF, BASIC ICON self explanatory, successful)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action  | Comments                           |
|------|-----------|---|------------------------------------|
| 1    | User → ME | Set up a call to "+0123456789"  |                                    |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"   |                                    |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.   |                                    |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 2.1.1   |                                    |
| 5    | ME → UICC | FETCH   |                                    |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 2.1.1  | [BASIC-ICON, self-explanatory]     |
| 7    | ME → USER | Display the BASIC-ICON<br>Do not locally generate audible DTMF tones and play them to the user. |                                    |
| 8    | ME → USS  | Start DTMF 1.1  | ["1"]                              |
| 9    | ME        |   | No DTMF sending for 3 seconds ±20% |
| 10   | ME → USS  | Start DTMF 1.2  | ["2"]                              |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 2.1.1A   | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED  |                                    |
| 13   | User → ME | End the call  |                                    |

#### PROACTIVE COMMAND: SEND DTMF 2.1.1

Logically:

##### Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

##### Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Basic Icon"  
 DTMF String: "1" pause "2"

##### Icon identifier

Icon qualifier: icon is self-explanatory  
 Icon identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
|          | 0A | 42 | 61 | 73 | 69 | 63 | 20 | 49 | 63 | 6F | 6E | AC |
|          | 02 | C1 | F2 | 9E | 02 | 00 | 01 |    |    |    |    |    |

#### DTMF Request 2.1.1

Logically:

DTMF String: \$DTMF\_2.1\$ = "C1 F2" (given as example)

#### TERMINAL RESPONSE: SEND DTMF 2.1.1A

Logically:

##### Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

##### Device identities

Source device: ME

Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

### Expected Sequence 2.1B (SEND DTMF, BASIC ICON self explanatory, requested icon could not be displayed)

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | User → ME | Set up a call to "+0123456789"   |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 2.1.1  |   |
| 5    | ME → UICC | FETCH  |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 2.1.1   | [BASIC-ICON, self-explanatory]  |
| 7    | ME → USER | Display "Basic Icon" without the icon<br>Do not locally generate audible DTMF tones and play them to the user. |   |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 9    | ME        |  | No DTMF sending for 3 seconds ±20 %   |
| 10   | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 2.1.1B  | [Command performed successfully, but requested icon could not be displayed] |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 13   | User → ME | End the call   |   |

TERMINAL RESPONSE: SEND DTMF 2.1.1B

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully, but requested icon could not be displayed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

### Expected Sequence 2.2A (SEND DTMF, COLOUR-ICON self explanatory, successful)

Some details of the DTMF protocol have been left out for clarity.



| Step | Direction | MESSAGE / Action   | Comments                           |
|------|-----------|--|------------------------------------|
| 1    | User → ME | Set up a call to "+0123456789"   |                                    |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |                                    |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |                                    |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 2.2.1  |                                    |
| 5    | ME → UICC | FETCH  |                                    |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 2.2.1   | [COLOUR-ICON]                      |
| 7    | ME → USER | Display the COLOUR-ICON<br>Do not locally generate audible DTMF tones and play them to the user. |                                    |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]                              |
| 9    | ME        |  | No DTMF sending for 3 seconds ±20% |
| 10   | ME → USS  | Start DTMF 1.2   | ["2"]                              |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 2.1.1A  | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED   |                                    |
| 13   | User → ME | End the call   |                                    |

#### PROACTIVE COMMAND: SEND DTMF 2.2.1

Logically:

##### Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

##### Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Colour Icon"  
 DTMF String: "1" pause "2"

##### Icon identifier:

Icon qualifier: icon is self-explanatory  
 Icon identifier: record 2 in EF<sub>(IMG)</sub>

Coding:

| BER-TLV: | D0 | 1E | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
|          | 0B | 43 | 6F | 6C | 6F | 75 | 72 | 20 | 49 | 63 | 6F | 6E |
|          | AC | 02 | C1 | F2 | 9E | 02 | 00 | 02 |    |    |    |    |

#### Expected Sequence 2.2B (SEND DTMF, COLOUR-ICON self explanatory, requested icon could not be displayed)

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | User → ME | Set up a call to "+0123456789"  |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"   |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.   |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 2.2.1   |   |
| 5    | ME → UICC | FETCH   |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 2.2.1  | [COLOUR-ICON]   |
| 7    | ME → USER | Display "Colour Icon" without the icon<br>Do not locally generate audible DTMF tones and play them to the user. |   |
| 8    | ME → USS  | Start DTMF 1.1  | ["1"]   |
| 9    | ME        |   | No DTMF sending for 3 seconds ±20%  |
| 10   | ME → USS  | Start DTMF 1.2  | ["2"]   |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 2.1.1B   | [Command performed successfully, but requested icon could not be displayed] |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED  |   |
| 13   | User → ME | End the call  |   |

**Expected Sequence 2.3A (SEND DTMF, Alpha identifier & BASIC-ICON, not self-explanatory, successful)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | User → ME | Set up a call to "+0123456789"  |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"   |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.   |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 2.3.1   |   |
| 5    | ME → UICC | FETCH   |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 2.3.1  | [Alpha identifier & BASIC-ICON, not self-explanatory] |
| 7    | ME → USER | Display 'Send DTMF' and the BASIC-ICON<br>Do not locally generate audible DTMF tones and play them to the user. |   |
| 8    | ME → USS  | Start DTMF 1.1  | ["1"]   |
| 9    | ME        |   | No DTMF sending for 3 seconds ±20 %                   |
| 10   | ME → USS  | Start DTMF 1.2  | ["2"]   |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 2.1.1A   | [Command performed successfully]                      |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED  |   |
| 13   | User → ME | End the call  |   |

PROACTIVE COMMAND: SEND DTMF 2.3.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Send DTMF"  
 DTMF String: "1" pause "2"

## Icon identifier:

Icon qualifier: icon is not self-explanatory  
 Icon identifier: record 1 in EF<sub>(IMG)</sub>

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 09 | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | AC | 02 |
|          | C1 | F2 | 9E | 02 | 01 | 01 |    |    |    |    |    |    |

**Expected Sequence 2.3B (SEND DTMF, Alpha identifier & BASIC-ICON, not self-explanatory, requested icon could not be displayed)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | User → ME | Set up a call to "+0123456789"  |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"   |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.   |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 2.3.1   |   |
| 5    | ME → UICC | FETCH   |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 2.3.1  | [Alpha identifier & BASIC-ICON, not self-explanatory]                       |
| 7    | ME → USER | Display "Send DTMF" without the icon<br>Do not locally generate audible DTMF tones and play them to the user. |   |
| 8    | ME → USS  | Start DTMF 1.1  | ["1"]   |
| 9    | ME        |   | No DTMF sending for 3 seconds ±20%  |
| 10   | ME → USS  | Start DTMF 1.2  | ["2"]   |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 2.1.1B   | [Command performed successfully, but requested icon could not be displayed] |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED  |   |
| 13   | User → ME | End the call  |   |

## 27.22.4.24.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.3.

## 27.22.4.24.3 SEND DTMF (UCS2 display in Cyrillic)

## 27.22.4.24.3.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.24.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646. [17].

#### 27.22.4.24.3.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND DTMF proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.24.3.4 Method of test

##### 27.22.4.24.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

##### 27.22.4.24.3.4.2 Procedure

### Expected Sequence 3.1 (SEND DTMF, successful, UCS2 text in Cyrillic)

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action                                  | Comments                           |
|------|-----------|---|------------------------------------|
| 1    | User → ME | Set up a call to "+0123456789"                    |                                    |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789" |                                    |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS. |                                    |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 3.1.1     |                                    |
| 5    | ME → UICC | FETCH   |                                    |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND<br>DTMF 3.1.1             |                                    |
| 7    | ME → USER | Display "ЗДРАВСТВУЙТЕ"                            | ["Hello" in Russian]               |
| 8    | ME → USS  | Start DTMF 1.1                                    | ["1"]                              |
| 9    | ME        |   | No DTMF sending for 3 seconds ±20% |
| 10   | ME → USS  | Start DTMF 1.2                                    | ["2"]                              |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND<br>DTMF 3.1.1             | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED                   |                                    |
| 13   | User → ME | End the call                                      |                                    |

#### PROACTIVE COMMAND: SEND DTMF 3.1.1

Logically:

##### Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

##### Device identities

Source device: UICC  
 Destination device: Network

##### Alpha Identifier

Text: "ЗДРАВСТВУЙТЕ"  
 DTMF String: "1" pause "2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 28 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 19 | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 | 04 | 12 |
|          | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 | 04 | 22 |
|          | 04 | 15 | AC | 02 | C1 | F2 |    |    |    |    |    |    |

TERMINAL RESPONSE: SEND DTMF 3.1.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successful

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.12.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 3.1.

#### 27.22.4.24.4 SEND DTMF (support of Text Attribute)

##### 27.22.4.24.4.1 SEND DTMF (support of Text Attribute – Left Alignment)

##### 27.22.4.24.4.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.24.4.1.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

##### 27.22.4.24.4.1.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the left alignment text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.1.4 Method of test

27.22.4.24.4.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.1.4.2 Procedure

**Expected Sequence 4.1 (SEND DTMF, with text attribute – Left Alignment)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | User → ME | Set up a call to "+0123456789"   |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.1.1  |   |
| 5    | ME → UICC | FETCH  |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.1.1   |   |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with left alignment]   |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.1.1   | [Command performed successfully]  |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 20   | User → ME | End the call   |   |
| 21   | User → ME | Set up a call to "+0123456789"   |   |
| 22   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 23   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.1.2  |   |
| 25   | ME → UICC | FETCH  |   |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.1.2   |   |
| 27   | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Message shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/17, no alignment change will take place] |
| 28   | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 29   | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 30   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 31   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 32   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 33   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 34   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 35   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 36   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 37   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 38   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.1.1   | [Command performed successfully]  |
| 39   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 40   | User → ME | End the call   |   |

PROACTIVE COMMAND: SEND DTMF 4.1.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"  
 Device identities  
   Source device: UICC  
   Destination device: Network  
 Alpha identifier: "Send DTMF 1"  
 DTMF String: "1234567890"  
 Text Attribute  
   Formatting position: 0  
   Formatting length: 11  
   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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 31 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 00 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DTMF 4.1.2

Logically:

Command details  
   Command number: 1  
   Command type: SEND DTMF  
   Command qualifier: "00"  
 Device identities  
   Source device: UICC  
   Destination device: Network  
 Alpha identifier: "Send DTMF 2"  
 DTMF String: "1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 32 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |

TERMINAL RESPONSE: SEND DTMF 4.1.1

Logically:

Command details  
   Command number: 1  
   Command type: SEND DTMF  
   Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|



#### 27.22.4.24.4.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

#### 27.22.4.24.4.2 SEND DTMF (support of Text Attribute – Center Alignment)

##### 27.22.4.24.4.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.24.4.2.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

##### 27.22.4.24.4.2.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the center alignment text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

##### 27.22.4.24.4.2.4 Method of test

###### 27.22.4.24.4.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

###### 27.22.4.24.4.2.4.2 Procedure

#### **Expected Sequence 4.2 (SEND DTMF, with text attribute – Center Alignment)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | User → ME | Set up a call to "+0123456789"   |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.2.1  |   |
| 5    | ME → UICC | FETCH  |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.2.1   |   |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with center alignment]   |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.2.1   | [Command performed successfully]  |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 20   | User → ME | End the call   |   |
| 21   | User → ME | Set up a call to "+0123456789"   |   |
| 22   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 23   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.2.2  |   |
| 25   | ME → UICC | FETCH  |   |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.2.2   |   |
| 27   | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Message shall be formatted without center alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/17, no alignment change will take place] |
| 28   | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 29   | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 30   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 31   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 32   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 33   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 34   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 35   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 36   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 37   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 38   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.2.1   | [Command performed successfully]  |
| 39   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 40   | User → ME | End the call   |   |

PROACTIVE COMMAND: SEND DTMF 4.2.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"  
 Device identities  
   Source device: UICC  
   Destination device: Network  
 Alpha identifier: "Send DTMF 1"  
 DTMF String: "1234567890"  
 Text Attribute  
   Formatting position: 0  
   Formatting length: 11  
   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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 31 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 01 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DTMF 4.2.2

Logically:

Command details  
   Command number: 1  
   Command type: SEND DTMF  
   Command qualifier: "00"  
 Device identities  
   Source device: UICC  
   Destination device: Network  
 Alpha identifier: "Send DTMF 2"  
 DTMF String: "1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 32 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |

TERMINAL RESPONSE: SEND DTMF 4.2.1

Logically:

Command details  
   Command number: 1  
   Command type: SEND DTMF  
   Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.24.4.2.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.2.

#### 27.22.4.24.4.3 SEND DTMF (support of Text Attribute – Right Alignment)

##### 27.22.4.24.4.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.24.4.3.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

##### 27.22.4.24.4.3.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the right alignment text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

##### 27.22.4.24.4.3.4 Method of test

###### 27.22.4.24.4.3.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

###### 27.22.4.24.4.3.4.2 Procedure

#### **Expected Sequence 4.3 (SEND DTMF, with text attribute – Right Alignment)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | User → ME | Set up a call to "+0123456789"   |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.3.1  |   |
| 5    | ME → UICC | FETCH  |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.3.1   |   |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with right alignment]  |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.3.1   | [Command performed successfully]  |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 20   | User → ME | End the call   |   |
| 21   | User → ME | Set up a call to "+0123456789"   |   |
| 22   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 23   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.3.2  |   |
| 25   | ME → UICC | FETCH  |   |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.3.2   |   |
| 27   | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Message shall be formatted without right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/17, no alignment change will take place] |
| 28   | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 29   | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 30   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 31   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 32   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 33   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 34   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 35   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 36   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 37   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 38   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.3.1   | [Command performed successfully]  |
| 39   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 40   | User → ME | End the call   |   |

PROACTIVE COMMAND: SEND DTMF 4.3.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"  
 Device identities  
   Source device: UICC  
   Destination device: Network  
 Alpha identifier: "Send DTMF 1"  
 DTMF String: "1234567890"  
 Text Attribute  
   Formatting position: 0  
   Formatting length: 11  
   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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 31 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | B0 | 02 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DTMF 4.3.2

Logically:

Command details  
   Command number: 1  
   Command type: SEND DTMF  
   Command qualifier: "00"  
 Device identities  
   Source device: UICC  
   Destination device: Network  
 Alpha identifier: "Send DTMF 2"  
 DTMF String: "1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 32 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |

TERMINAL RESPONSE: SEND DTMF 4.3.1

Logically:

Command details  
   Command number: 1  
   Command type: SEND DTMF  
   Command qualifier: "00"  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.24.4.3.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.3.

#### 27.22.4.24.4.4 SEND DTMF (support of Text Attribute – Large Font Size)

##### 27.22.4.24.4.4.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.24.4.4.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

##### 27.22.4.24.4.4.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the large font size text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

##### 27.22.4.24.4.4.4 Method of test

###### 27.22.4.24.4.4.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

###### 27.22.4.24.4.4.4.2 Procedure

#### **Expected Sequence 4.4 (SEND DTMF, with text attribute – Large Font Size)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | User → ME | Set up a call to "+0123456789"   |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.4.1  |   |
| 5    | ME → UICC | FETCH  |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.4.1   |   |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with large font size]  |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.4.1   | [Command performed successfully]                      |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 20   | User → ME | End the call   |   |
| 21   | User → ME | Set up a call to "+0123456789"   |   |
| 22   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 23   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.4.2  |   |
| 25   | ME → UICC | FETCH  |   |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.4.2   |   |
| 27   | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with normal font size] |
| 28   | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 29   | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 30   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 31   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 32   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 33   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 34   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 35   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 36   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 37   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 38   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.4.1   | [Command performed successfully]                      |
| 39   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 40   | User → ME | End the call   |   |
| 41   | User → ME | Set up a call to "+0123456789"   |   |
| 42   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 43   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 44   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.4.1  |   |



|    |           |  |   |
|----|-----------|--|---|
| 45 | ME → UICC | FETCH  |   |
| 46 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.4.1   |   |
| 47 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with large font size]  |
| 48 | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 49 | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 50 | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 51 | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 52 | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 53 | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 54 | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 55 | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 56 | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 57 | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 58 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.4.1   | [Command performed successfully]                      |
| 59 | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 60 | User → ME | End the call   |   |
| 61 | User → ME | Set up a call to "+0123456789"   |   |
| 62 | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 63 | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 64 | UICC → ME | PROACTIVE COMMAND PENDING: SEND DTMF 4.4.3   |   |
| 65 | ME → UICC | FETCH  |   |
| 66 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.4.3   |   |
| 67 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with normal font size] |
| 68 | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 69 | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 70 | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 71 | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 72 | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 73 | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 74 | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 75 | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 76 | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 77 | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 78 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.4.1   | [Command performed successfully]                      |
| 79 | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 80 | User → ME | End the call   |   |

## PROACTIVE COMMAND: SEND DTMF 4.4.1

Logically:

## Command details

Command number: 1  
Command type: SEND DTMF  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: Network

Alpha identifier: "Send DTMF 1"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 31 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 04 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.4.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 2"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 32 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 00 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.4.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 3"

DTMF String: "1234567890"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 33 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |

## TERMINAL RESPONSE: SEND DTMF 4.4.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## 27.22.4.24.4.4.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.4.

## 27.22.4.24.4.5 SEND DTMF (support of Text Attribute – Small Font Size)

## 27.22.4.24.4.5.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.24.4.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

## 27.22.4.24.4.5.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the small font size text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

## 27.22.4.24.4.5.4 Method of test

## 27.22.4.24.4.5.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.5.4.2 Procedure

**Expected Sequence 4.5 (SEND DTMF, with text attribute – Small Font Size)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | User → ME | Set up a call to "+0123456789"   |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.5.1  |   |
| 5    | ME → UICC | FETCH  |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.5.1   |   |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with small font size]  |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.5.1   | [Command performed successfully]                      |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 20   | User → ME | End the call   |   |
| 21   | User → ME | Set up a call to "+0123456789"   |   |
| 22   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 23   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.5.2  |   |
| 25   | ME → UICC | FETCH  |   |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.5.2   |   |
| 27   | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with normal font size] |
| 28   | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 29   | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 30   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 31   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 32   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 33   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 34   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 35   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 36   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 37   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 38   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.5.1   | [Command performed successfully]                      |
| 39   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 40   | User → ME | End the call   |   |
| 41   | User → ME | Set up a call to "+0123456789"   |   |
| 42   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 43   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 44   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.5.1  |   |

|    |           |  |   |
|----|-----------|--|---|
| 45 | ME → UICC | FETCH  |   |
| 46 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.5.1   |   |
| 47 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with small font size]  |
| 48 | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 49 | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 50 | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 51 | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 52 | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 53 | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 54 | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 55 | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 56 | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 57 | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 58 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.5.1   | [Command performed successfully]                      |
| 59 | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 60 | User → ME | End the call   |   |
| 61 | User → ME | Set up a call to "+0123456789"   |   |
| 62 | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 63 | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 64 | UICC → ME | PROACTIVE COMMAND PENDING: SEND DTMF 4.5.3   |   |
| 65 | ME → UICC | FETCH  |   |
| 66 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.5.3   |   |
| 67 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with normal font size] |
| 68 | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 69 | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 70 | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 71 | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 72 | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 73 | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 74 | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 75 | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 76 | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 77 | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 78 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.5.1   | [Command performed successfully]                      |
| 79 | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 80 | User → ME | End the call   |   |

## PROACTIVE COMMAND: SEND DTMF 4.5.1

Logically:

## Command details

Command number: 1  
Command type: SEND DTMF  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: Network

Alpha identifier: "Send DTMF 1"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 31 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 08 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.5.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 2"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 32 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 00 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.5.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 3"

DTMF String: "1234567890"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 33 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |

TERMINAL RESPONSE: SEND DTMF 4.5.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.24.4.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.5.

27.22.4.24.4.6 SEND DTMF (support of Text Attribute – Bold On)

27.22.4.24.4.6.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.6.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the bold text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.6.4 Method of test

27.22.4.24.4.6.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.



27.22.4.24.4.6.4.2 Procedure

**Expected Sequence 4.6 (SEND DTMF, with text attribute – Bold On)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments                                      |
|------|-----------|--|---|
| 1    | User → ME | Set up a call to "+0123456789"   |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.6.1  |   |
| 5    | ME → UICC | FETCH  |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.6.1   |   |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with bold on]  |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.6.1   | [Command performed successfully]              |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 20   | User → ME | End the call   |   |
| 21   | User → ME | Set up a call to "+0123456789"   |   |
| 22   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 23   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.6.2  |   |
| 25   | ME → UICC | FETCH  |   |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.6.2   |   |
| 27   | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with bold off] |
| 28   | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 29   | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 30   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 31   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 32   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 33   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 34   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 35   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 36   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 37   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 38   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.6.1   | [Command performed successfully]              |
| 39   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 40   | User → ME | End the call   |   |
| 41   | User → ME | Set up a call to "+0123456789"   |   |
| 42   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 43   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 44   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.6.1  |   |

|    |           |  |   |
|----|-----------|--|---|
| 45 | ME → UICC | FETCH  |   |
| 46 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.6.1   |   |
| 47 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with bold on]  |
| 48 | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 49 | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 50 | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 51 | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 52 | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 53 | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 54 | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 55 | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 56 | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 57 | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 58 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.6.1   | [Command performed successfully]              |
| 59 | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 60 | User → ME | End the call   |   |
| 61 | User → ME | Set up a call to "+0123456789"   |   |
| 62 | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 63 | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 64 | UICC → ME | PROACTIVE COMMAND PENDING: SEND DTMF 4.6.3   |   |
| 65 | ME → UICC | FETCH  |   |
| 66 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.6.3   |   |
| 67 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with bold off] |
| 68 | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 69 | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 70 | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 71 | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 72 | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 73 | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 74 | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 75 | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 76 | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 77 | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 78 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.6.1   | [Command performed successfully]              |
| 79 | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 80 | User → ME | End the call   |   |

## PROACTIVE COMMAND: SEND DTMF 4.6.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 1"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 31 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 10 |
|          | B4 | 00 |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.6.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 2"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 32 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 00 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.6.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 3"

DTMF String: "1234567890"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 33 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |

TERMINAL RESPONSE: SEND DTMF 4.6.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.24.4.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.6.

27.22.4.24.4.7 SEND DTMF (support of Text Attribute – Italic On)

27.22.4.24.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.7.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.7.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the italic text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.7.4 Method of test

27.22.4.24.4.7.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.7.4.2 Procedure

**Expected Sequence 4.7 (SEND DTMF, with text attribute – *Italic On*)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | User → ME | Set up a call to "+0123456789"   |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.7.1  |   |
| 5    | ME → UICC | FETCH  |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.7.1   |   |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with italic on]  |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.7.1   | [Command performed successfully]                |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 20   | User → ME | End the call   |   |
| 21   | User → ME | Set up a call to "+0123456789"   |   |
| 22   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 23   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.7.2  |   |
| 25   | ME → UICC | FETCH  |   |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.7.2   |   |
| 27   | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with italic off] |
| 28   | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 29   | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 30   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 31   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 32   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 33   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 34   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 35   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 36   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 37   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 38   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.7.1   | [Command performed successfully]                |
| 39   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 40   | User → ME | End the call   |   |
| 41   | User → ME | Set up a call to "+0123456789"   |   |
| 42   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 43   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 44   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.7.1  |   |

|    |           |  |   |
|----|-----------|--|---|
| 45 | ME → UICC | FETCH  |   |
| 46 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.7.1   |   |
| 47 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with italic on]  |
| 48 | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 49 | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 50 | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 51 | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 52 | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 53 | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 54 | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 55 | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 56 | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 57 | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 58 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.7.1   | [Command performed successfully]                |
| 59 | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 60 | User → ME | End the call   |   |
| 61 | User → ME | Set up a call to "+0123456789"   |   |
| 62 | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 63 | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 64 | UICC → ME | PROACTIVE COMMAND PENDING: SEND DTMF 4.7.3   |   |
| 65 | ME → UICC | FETCH  |   |
| 66 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.7.3   |   |
| 67 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with italic off] |
| 68 | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 69 | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 70 | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 71 | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 72 | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 73 | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 74 | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 75 | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 76 | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 77 | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 78 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.7.1   | [Command performed successfully]                |
| 79 | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 80 | User → ME | End the call   |   |

## PROACTIVE COMMAND: SEND DTMF 4.7.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 1"

DTMF String: "1234567890"



## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 31 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 20 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.7.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 2"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 32 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 00 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.7.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 3"

DTMF String: "1234567890"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 33 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |

TERMINAL RESPONSE: SEND DTMF 4.7.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.24.4.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.7.

27.22.4.24.4.8 SEND DTMF (support of Text Attribute – Underline On)

27.22.4.24.4.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.8.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.8.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the underline text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.8.4 Method of test

27.22.4.24.4.8.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.8.4.2 Procedure

**Expected Sequence 4.8 (SEND DTMF, with text attribute – Underline On)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | Set up a call to "+0123456789"   |  |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |  |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |  |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.8.1  |  |
| 5    | ME → UICC | FETCH  |  |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.8.1   |  |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with underline on]  |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]  |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]  |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]  |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]  |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]  |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]  |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]  |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]  |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]  |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]  |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.8.1   | [Command performed successfully]                   |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 20   | User → ME | End the call   |  |
| 21   | User → ME | Set up a call to "+0123456789"   |  |
| 22   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |  |
| 23   | USS → ME  | The ME receives the CONNECT message from the USS.  |  |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.8.2  |  |
| 25   | ME → UICC | FETCH  |  |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.8.2   |  |
| 27   | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with underline off] |
| 28   | ME → USS  | Start DTMF 1.1   | ["1"]  |
| 29   | ME → USS  | Start DTMF 1.2   | ["2"]  |
| 30   | ME → USS  | Start DTMF 1.3   | ["3"]  |
| 31   | ME → USS  | Start DTMF 1.4   | ["4"]  |
| 32   | ME → USS  | Start DTMF 1.5   | ["5"]  |
| 33   | ME → USS  | Start DTMF 1.6   | ["6"]  |
| 34   | ME → USS  | Start DTMF 1.7   | ["7"]  |
| 35   | ME → USS  | Start DTMF 1.8   | ["8"]  |
| 36   | ME → USS  | Start DTMF 1.9   | ["9"]  |
| 37   | ME → USS  | Start DTMF 1.10  | ["0"]  |
| 38   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.8.1   | [Command performed successfully]                   |
| 39   | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 40   | User → ME | End the call   |  |
| 41   | User → ME | Set up a call to "+0123456789"   |  |
| 42   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |  |
| 43   | USS → ME  | The ME receives the CONNECT message from the USS.  |  |
| 44   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.8.1  |  |

|    |           |  |  |
|----|-----------|--|--|
| 45 | ME → UICC | FETCH  |  |
| 46 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.8.1   |  |
| 47 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with underline on]  |
| 48 | ME → USS  | Start DTMF 1.1   | ["1"]  |
| 49 | ME → USS  | Start DTMF 1.2   | ["2"]  |
| 50 | ME → USS  | Start DTMF 1.3   | ["3"]  |
| 51 | ME → USS  | Start DTMF 1.4   | ["4"]  |
| 52 | ME → USS  | Start DTMF 1.5   | ["5"]  |
| 53 | ME → USS  | Start DTMF 1.6   | ["6"]  |
| 54 | ME → USS  | Start DTMF 1.7   | ["7"]  |
| 55 | ME → USS  | Start DTMF 1.8   | ["8"]  |
| 56 | ME → USS  | Start DTMF 1.9   | ["9"]  |
| 57 | ME → USS  | Start DTMF 1.10  | ["0"]  |
| 58 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.8.1   | [Command performed successfully]                   |
| 59 | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 60 | User → ME | End the call   |  |
| 61 | User → ME | Set up a call to "+0123456789"   |  |
| 62 | ME → USS  | The ME attempts to set up a call to "+0123456789"  |  |
| 63 | USS → ME  | The ME receives the CONNECT message from the USS.  |  |
| 64 | UICC → ME | PROACTIVE COMMAND PENDING: SEND DTMF 4.8.3   |  |
| 65 | ME → UICC | FETCH  |  |
| 66 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.8.3   |  |
| 67 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with underline off] |
| 68 | ME → USS  | Start DTMF 1.1   | ["1"]  |
| 69 | ME → USS  | Start DTMF 1.2   | ["2"]  |
| 70 | ME → USS  | Start DTMF 1.3   | ["3"]  |
| 71 | ME → USS  | Start DTMF 1.4   | ["4"]  |
| 72 | ME → USS  | Start DTMF 1.5   | ["5"]  |
| 73 | ME → USS  | Start DTMF 1.6   | ["6"]  |
| 74 | ME → USS  | Start DTMF 1.7   | ["7"]  |
| 75 | ME → USS  | Start DTMF 1.8   | ["8"]  |
| 76 | ME → USS  | Start DTMF 1.9   | ["9"]  |
| 77 | ME → USS  | Start DTMF 1.10  | ["0"]  |
| 78 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.8.1   | [Command performed successfully]                   |
| 79 | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 80 | User → ME | End the call   |  |

## PROACTIVE COMMAND: SEND DTMF 4.8.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 1"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 31 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 40 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.8.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 2"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 32 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 00 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.8.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 3"

DTMF String: "1234567890"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 33 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |

## TERMINAL RESPONSE: SEND DTMF 4.8.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## 27.22.4.24.4.8.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.8.

## 27.22.4.24.4.9 SEND DTMF (support of Text Attribute – Strikethrough On)

## 27.22.4.24.4.9.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.24.4.9.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

## 27.22.4.24.4.9.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the strikethrough text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

## 27.22.4.24.4.9.4 Method of test

## 27.22.4.24.4.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

27.22.4.24.4.9.4.2 Procedure

**Expected Sequence 4.9 (SEND DTMF, with text attribute – Strikethrough On)**

Some details of the DTMF protocol have been left out for clarity.



| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | Set up a call to "+0123456789"   |  |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |  |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |  |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.9.1  |  |
| 5    | ME → UICC | FETCH  |  |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.9.1   |  |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with strikethrough on]  |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]  |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]  |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]  |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]  |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]  |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]  |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]  |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]  |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]  |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]  |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.9.1   | [Command performed successfully]                       |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 20   | User → ME | End the call   |  |
| 21   | User → ME | Set up a call to "+0123456789"   |  |
| 22   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |  |
| 23   | USS → ME  | The ME receives the CONNECT message from the USS.  |  |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.9.2  |  |
| 25   | ME → UICC | FETCH  |  |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.9.2   |  |
| 27   | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with strikethrough off] |
| 28   | ME → USS  | Start DTMF 1.1   | ["1"]  |
| 29   | ME → USS  | Start DTMF 1.2   | ["2"]  |
| 30   | ME → USS  | Start DTMF 1.3   | ["3"]  |
| 31   | ME → USS  | Start DTMF 1.4   | ["4"]  |
| 32   | ME → USS  | Start DTMF 1.5   | ["5"]  |
| 33   | ME → USS  | Start DTMF 1.6   | ["6"]  |
| 34   | ME → USS  | Start DTMF 1.7   | ["7"]  |
| 35   | ME → USS  | Start DTMF 1.8   | ["8"]  |
| 36   | ME → USS  | Start DTMF 1.9   | ["9"]  |
| 37   | ME → USS  | Start DTMF 1.10  | ["0"]  |
| 38   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.9.1   | [Command performed successfully]                       |
| 39   | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 40   | User → ME | End the call   |  |
| 41   | User → ME | Set up a call to "+0123456789"   |  |
| 42   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |  |
| 43   | USS → ME  | The ME receives the CONNECT message from the USS.  |  |
| 44   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.9.1  |  |

|    |           |  |  |
|----|-----------|--|--|
| 45 | ME → UICC | FETCH  |  |
| 46 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.9.1   |  |
| 47 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with strikethrough on]  |
| 48 | ME → USS  | Start DTMF 1.1   | ["1"]  |
| 49 | ME → USS  | Start DTMF 1.2   | ["2"]  |
| 50 | ME → USS  | Start DTMF 1.3   | ["3"]  |
| 51 | ME → USS  | Start DTMF 1.4   | ["4"]  |
| 52 | ME → USS  | Start DTMF 1.5   | ["5"]  |
| 53 | ME → USS  | Start DTMF 1.6   | ["6"]  |
| 54 | ME → USS  | Start DTMF 1.7   | ["7"]  |
| 55 | ME → USS  | Start DTMF 1.8   | ["8"]  |
| 56 | ME → USS  | Start DTMF 1.9   | ["9"]  |
| 57 | ME → USS  | Start DTMF 1.10  | ["0"]  |
| 58 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.9.1   | [Command performed successfully]                       |
| 59 | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 60 | User → ME | End the call   |  |
| 61 | User → ME | Set up a call to "+0123456789"   |  |
| 62 | ME → USS  | The ME attempts to set up a call to "+0123456789"  |  |
| 63 | USS → ME  | The ME receives the CONNECT message from the USS.  |  |
| 64 | UICC → ME | PROACTIVE COMMAND PENDING: SEND DTMF 4.9.3   |  |
| 65 | ME → UICC | FETCH  |  |
| 66 | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.9.3   |  |
| 67 | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with strikethrough off] |
| 68 | ME → USS  | Start DTMF 1.1   | ["1"]  |
| 69 | ME → USS  | Start DTMF 1.2   | ["2"]  |
| 70 | ME → USS  | Start DTMF 1.3   | ["3"]  |
| 71 | ME → USS  | Start DTMF 1.4   | ["4"]  |
| 72 | ME → USS  | Start DTMF 1.5   | ["5"]  |
| 73 | ME → USS  | Start DTMF 1.6   | ["6"]  |
| 74 | ME → USS  | Start DTMF 1.7   | ["7"]  |
| 75 | ME → USS  | Start DTMF 1.8   | ["8"]  |
| 76 | ME → USS  | Start DTMF 1.9   | ["9"]  |
| 77 | ME → USS  | Start DTMF 1.10  | ["0"]  |
| 78 | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.9.1   | [Command performed successfully]                       |
| 79 | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 80 | User → ME | End the call   |  |

## PROACTIVE COMMAND: SEND DTMF 4.9.1

Logically:

## Command details

Command number: 1  
Command type: SEND DTMF  
Command qualifier: "00"

## Device identities

Source device: UICC  
Destination device: Network

Alpha identifier: "Send DTMF 1"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85  |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 31  |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 80B |
|          | B4 |    |    |    |    |    |    |    |    |    |    |     |

## PROACTIVE COMMAND: SEND DTMF 4.9.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 2"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 32 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 00 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.9.3

## Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 3"

DTMF String: "1234567890"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 33 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |

TERMINAL RESPONSE: SEND DTMF 4.9.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.24.4.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.9.

27.22.4.24.4.10 SEND DTMF (support of Text Attribute – Foreground and Background Colour)

27.22.4.24.4.10.1 Definition and applicability

See clause 3.2.2.

27.22.4.24.4.10.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.44 and clause 8.70.

27.22.4.24.4.10.3 Test purpose

To verify that after a call has been successfully established the ME sends the DTMF string contained in the SEND DTMF proactive UICC command to the network, and returns a successful response in the TERMINAL RESPONSE command sent to the UICC.

To verify that the ME does not locally generate audible DTMF tones and play them to the user.

To verify that if the ME is in idle mode it informs the UICC using TERMINAL RESPONSE '20' with the additional information "Not in speech call".

To verify that the ME displays the text contained in the SEND DTMF proactive UICC command.

To verify that the ME displays the alpha identifier according to the foreground and background colour text attribute configuration which are referred to in the contents of the SEND DTMF proactive UICC command.

27.22.4.24.4.10.4 Method of test

27.22.4.24.4.10.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.4.24.4.10.4.2 Procedure

**Expected Sequence 4.10 (SEND DTMF, with text attribute – Foreground and Background Colour)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | User → ME | Set up a call to "+0123456789"   |   |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.10.1   |   |
| 5    | ME → UICC | FETCH  |   |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.10.1  |   |
| 7    | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with foreground and background colour according to the text attribute configuration] |
| 8    | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 9    | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 10   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 11   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 12   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 13   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 14   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 15   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 16   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 17   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.10.1  | [Command performed successfully]  |
| 19   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 20   | User → ME | End the call   |   |
| 21   | User → ME | Set up a call to "+0123456789"   |   |
| 22   | ME → USS  | The ME attempts to set up a call to "+0123456789"  |   |
| 23   | USS → ME  | The ME receives the CONNECT message from the USS.  |   |
| 24   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 4.10.2   |   |
| 25   | ME → UICC | FETCH  |   |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DTMF 4.10.2  |   |
| 27   | ME → USER | Display "Send DTMF"<br>Do not locally generate audible DTMF tones and play them to the user. | [Alpha identifier is displayed with ME's default foreground and background colour]                                  |
| 28   | ME → USS  | Start DTMF 1.1   | ["1"]   |
| 29   | ME → USS  | Start DTMF 1.2   | ["2"]   |
| 30   | ME → USS  | Start DTMF 1.3   | ["3"]   |
| 31   | ME → USS  | Start DTMF 1.4   | ["4"]   |
| 32   | ME → USS  | Start DTMF 1.5   | ["5"]   |
| 33   | ME → USS  | Start DTMF 1.6   | ["6"]   |
| 34   | ME → USS  | Start DTMF 1.7   | ["7"]   |
| 35   | ME → USS  | Start DTMF 1.8   | ["8"]   |
| 36   | ME → USS  | Start DTMF 1.9   | ["9"]   |
| 37   | ME → USS  | Start DTMF 1.10  | ["0"]   |
| 38   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 4.10.1  | [Command performed successfully]  |
| 39   | UICC → ME | PROACTIVE UICC SESSION ENDED   |   |
| 40   | User → ME | End the call   |   |

## PROACTIVE COMMAND: SEND DTMF 4.10.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 1"

DTMF String: "1234567890"

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 23 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 31 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 | D0 | 04 | 00 | 0B | 00 |
|          | B4 |    |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DTMF 4.10.2

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "Send DTMF 2"

DTMF String: "1234567890"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1D | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 54 | 4D | 46 | 20 | 32 |
|          | AC | 05 | 21 | 43 | 65 | 87 | 09 |    |    |    |    |    |

## TERMINAL RESPONSE: SEND DTMF 4.10.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.24.4.10.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.10.

#### 27.22.4.24.5 SEND DTMF (UCS2 Display in Chinese)

##### 27.22.4.24.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.24.5.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters , as defined in:

- ISO/IEC 10646. [17].

##### 27.22.4.24.5.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND DTMF proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.24.5.4 Method of test

###### 27.22.4.24.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

###### 27.22.4.24.5.4.2 Procedure

#### **Expected Sequence 5.1 (SEND DTMF, successful, UCS2 text in Chinese)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action                                  | Comments                           |
|------|-----------|---|------------------------------------|
| 1    | User → ME | Set up a call to "+0123456789"                    |                                    |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789" |                                    |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS. |                                    |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 5.1.1     |                                    |
| 5    | ME → UICC | FETCH   |                                    |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND DTMF 5.1.1                |                                    |
| 7    | ME → USER | Display "你好"                                      | ["Hello" in Chinese]               |
| 8    | ME → USS  | Start DTMF 1.1                                    | ["1"]                              |
| 9    | ME        |   | No DTMF sending for 3 seconds ±20% |
| 10   | ME → USS  | Start DTMF 1.2                                    | ["2"]                              |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DTMF 5.1.1                | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE UICC SESSION ENDED                      |                                    |
| 13   | User → ME | End the call                                      |                                    |

PROACTIVE COMMAND: SEND DTMF 5.1.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

Device identities

Source device: UICC  
 Destination device: Network

Alpha Identifier

Text: "你好"  
 DTMF String: "1" pause "2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 14 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 05 | 80 | 4F | 60 | 59 | 7D | AC | 02 | C1 | F2 |    |    |

TERMINAL RESPONSE: SEND DTMF 5.1.1

Logically:

Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successful

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|



## 27.22.4.24.5.5 Test requirement

The ME shall operate in the manner defined in expected sequence 5.1.

## 27.22.4.24.6 SEND DTMF (UCS2 Display in Katakana)

## 27.22.4.24.6.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.24.6.2 Conformance requirement

The ME shall support the Proactive UICC: Send DTMF facility as defined in:

- TS 31.111 [15] clause 6.1, clause 6.4.24, clause 6.6.24, clause 8.12.2, clause 5.2, clause 8.6, clause 8.7, clause 8.2 and clause 8.44.

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters , as defined in:

- ISO/IEC 10646. [17].

## 27.22.4.24.6.3 Test purpose

To verify that the ME displays the UCS2 text contained in the SEND DTMF proactive UICC command, and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

## 27.22.4.24.6.4 Method of test

## 27.22.4.24.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

## 27.22.4.24.6.4.2 Procedure

**Expected Sequence 6.1 (SEND DTMF, successful, UCS2 text)**

Some details of the DTMF protocol have been left out for clarity.

| Step | Direction | MESSAGE / Action                                  | Comments                           |
|------|-----------|---|------------------------------------|
| 1    | User → ME | Set up a call to "+0123456789"                    |                                    |
| 2    | ME → USS  | The ME attempts to set up a call to "+0123456789" |                                    |
| 3    | USS → ME  | The ME receives the CONNECT message from the USS. |                                    |
| 4    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DTMF 6.1.1     |                                    |
| 5    | ME → UICC | FETCH   |                                    |
| 6    | UICC → ME | PROACTIVE COMMAND: SEND<br>DTMF 6.1.1             |                                    |
| 7    | ME → USER | Display "ル"                                       | [Character in Katakana]            |
| 8    | ME → USS  | Start DTMF 1.1                                    | ["1"]                              |
| 9    | ME        |   | No DTMF sending for 3 seconds ±20% |
| 10   | ME → USS  | Start DTMF 1.2                                    | ["2"]                              |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND<br>DTMF 6.1.1             | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED                   |                                    |
| 13   | User → ME | End the call                                      |                                    |

## PROACTIVE COMMAND: SEND DTMF 6.1.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: Network

## Alpha Identifier

Text: "ル"  
 DTMF String: "1" pause "2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 12 | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 03 | 80 | 30 | EB | AC | 02 | C1 | F2 |    |    |    |    |

## TERMINAL RESPONSE: SEND DTMF 6.1.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DTMF  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successful

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 14 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## 27.22.4.24.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 6.1.

## 27.22.4.25 LANGUAGE NOTIFICATION

## 27.22.4.25.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.25.2 Conformance Requirement

The ME shall conclude the command by sending TERMINAL RESPONSE (OK) to the UICC, as soon as possible after receiving the LANGUAGE NOTIFICATION proactive UICC command.

- TS 31.111 [15] clause 6.4.25 and clause 6.6.25.

## 27.22.4.25.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (OK) to the UICC after the ME receives the LANGUAGE NOTIFICATION proactive UICC command.

#### 27.22.4.25.4 Method of Test

##### 27.22.4.25.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

##### 27.22.4.25.4.2 Procedure

###### **Expected Sequence 1.1 (LANGUAGE NOTIFICATION)**

See ETSI TS 102 384 [26] in subclause 27.22.4.25.4.2, Expected Sequence 1.1.

###### **Expected Sequence 1.2 (LANGUAGE NOTIFICATION)**

See ETSI TS 102 384 [26] in subclause 27.22.4.25.4.2, Expected Sequence 1.2.

##### 27.22.4.25.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 and 1.2.

#### 27.22.4.26 LAUNCH BROWSER

##### 27.22.4.26.1 LAUNCH BROWSER (No session already launched)

###### 27.22.4.26.1.1 Definition and applicability

See clause 3.2.2.

###### 27.22.4.26.1.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15 and clause 8.31.

###### 27.22.4.26.1.3 Test purpose

To verify that when the ME is in idle state, it launches properly the browser session required in LAUNCH BROWSER, and returns a successful result in the TERMINAL RESPONSE command.

###### 27.22.4.26.1.4 Method of test

###### 27.22.4.26.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default browser parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default browser parameters.

The mobile is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

#### 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  
 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 network simulator setup and related UE settings might require a corresponding adaptation.

#### 27.22.4.26.1.4.2 Procedure

##### Expected Sequence 1.1 (LAUNCH BROWSER, connect to the default URL)

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 0    | ME        |  | [The ME is in idle mode and the browser's cache shall have been cleared.]                          |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>1.1.1  |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 1.1.1   | [connect to the default URL, "launch browser, if not already launched", no null alpha id.]         |
| 4    | ME → USER | ME displays the alpha identifier   |  |
| 5    | USER → ME | The user may have to confirm the launch browser.   | [option: user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 1.1.1   | [Command performed successfully]   |
| 7    | ME→USS    | The ME attempts to launch the session with the default browser parameters and the default URL. | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |
| 9    | USER → ME | The user verifies that the default browser session is properly established.                    |  |

PROACTIVE COMMAND: LAUNCH BROWSER 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

## Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty  
 Alpha Identifier: "Default URL"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 18 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0B | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: LAUNCH BROWSER 1.1.1

## Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

### Expected Sequence 1.2 (LAUNCH BROWSER, connect to the specified URL, alpha identifier length=0)

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        |   | [The ME is in idle mode and the browser's cache shall have been cleared.]                          |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>1.2.1                       |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 1.2.1                                  | [connect to defined URL, "launch browser, if not already launched, alpha identifier length=0]      |
| 4    | ME → USER | No information should be displayed.   |  |
| 5    | USER → ME | The user may have to confirm the launch browser.                            | [option: user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 1.2.1                                  | [Command performed successfully]   |
| 7    | ME → USS  | The ME attempts to connect the URL specified in the LAUNCH BROWSER command. | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 9    | USER → ME | The user verifies that the URL is properly connected.                       |  |

## PROACTIVE COMMAND: LAUNCH BROWSER 1.2.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME  
 URL: <http://xxx.yyy.zzz> (Note: this URL shall be different from the default URL, but it can be reached from the gateway defined by default in the browser parameters of the mobile)

Alpha Identifier: empty

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1F | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 12 | 68 | 74 | 74 | 70 | 3A | 2F | 2F | 78 | 78 | 78 | 2E |
|          | 79 | 79 | 79 | 2E | 7A | 7A | 7A | 05 | 00 |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 1.2.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.3 (LAUNCH BROWSER, Browser identity, no alpha identifier)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        |   | [The ME is in idle mode and the browser's cache shall have been cleared.]                          |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>1.3.1                       |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 1.3.1                                  | [connect to the default URL, "launch browser, if not already launched, browser identity]           |
| 4    | ME → USER | ME may display a default message of its own.                                |  |
| 5    | USER → ME | The user may confirm the launch browser.                                    | [option: user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 1.3.1                                  | [Command performed successfully]   |
| 7    | ME→USS    | The ME attempts to connect the default URL.                                 | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 9    | USER → ME | The user verifies that the default browser session is properly established. |  |

**PROACTIVE COMMAND: LAUNCH BROWSER 1.3.1**

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

## Device identities

Source device: UICC  
 Destination device: ME  
 Browser Identity: default  
 URL: empty

Coding::

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0E | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 30 |
|          | 01 | 00 | 31 | 00 |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE: LAUNCH BROWSER 1.3.1**

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.4 (LAUNCH BROWSER, only GPRS bearer specified and gateway/proxy identity, GPRS supported by USS)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 0    | ME        |  | [The ME is in idle mode, GPRS supported by USS, GPRS supported by the ME and activated, the terminal might need to be configured with an entry linking the Gateway/Proxy Identity in the proactive command with the corresponding connectivity parameters in the mobile. The browser's cache shall have been cleared.] |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>1.4.1  |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 1.4.1   | [connect to the default URL, "launch browser, if not already launched, 1 bearer specified, gateway/proxy id specified]   |
| 4    | ME → USER | ME may display a default message   |  |
| 5    | USER → ME | The user may confirm the launch browser.   | [option: user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 1.4.1   | [Command performed successfully]   |
| 7    | ME→USS    | The ME attempts to connect the default URL using the requested bearer and proxy identity     | [The USS shall handle the request of additional URLs as defined in the initial conditions section]   |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |
| 9    | USER → ME | The user verifies that the browser session is properly established with the required bearer. |  |

**PROACTIVE COMMAND: LAUNCH BROWSER 1.4.1**

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty  
 Bearer: GPRS

Gateway/Proxy id

DCS unpacked, 8 bits data  
 Text string: abc.def.ghi.jkl (different from the default IP address)

Coding::

|          |                |    |    |    |    |    |    |    |                |    |    |    |
|----------|----------------|----|----|----|----|----|----|----|----------------|----|----|----|
| BER-TLV: | D0             | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02             | 81 | 82 | 31 |
|          | 00             | 32 | 01 | 03 | 0D | 10 | 04 | 61 | 6 <sup>2</sup> | 63 | 2E | 64 |
|          | 6 <sup>5</sup> | 66 | 2E | 67 | 68 | 69 | 2E | 6A | 6B             | 6C |    |    |

**TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1**

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched



## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

BER-TLV: 81 03 01 15 00 82 02 82 81 83 01 00

**Expected Sequence 1.5 Void**

## 27.22.4.26.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.4

## 27.22.4.26.2 LAUNCH BROWSER (Interaction with current session)

## 27.22.4.26.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.26.2.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 82.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

## 27.22.4.26.2.3 Test purpose

To verify that when the ME is already busy in a browser session, it launches properly the browser session required in LAUNCH BROWSER, and returns a successful result in the TERMINAL RESPONSE.

## 27.22.4.26.2.4 Method of test

## 27.22.4.26.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to a Wap gateway is required. The default browser parameters (IP address, gateway/proxy identity, called number...) of the tested mobile shall be properly filled to access that gateway.

The mobile is busy in a browser session, the user navigates in pages different from the URL defined by default in browser parameters.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation. The browser's cache shall have been cleared before execution of each sequence.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

## 27.22.4.26.2.4.2 Procedure

**Expected Sequence 2.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        | The user is navigating in a browser session (not default URL).                              | [Browser is in use, the current session is not secured]  |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER 2.1.1  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 2.1.1  | [connect to the default URL, "use the existing browser", no null alpha id.]                        |
| 4    | ME → USER | ME displays the alpha identifier  |  |
| 5    | USER → ME | The user confirms the launch browser.   | [user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 2.1.1   | [Command performed successfully]   |
| 7    | ME→USS    | The ME does not close the existing session and attempts to connect the default URL.         | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 9    | USER → ME | The user verifies that the default URL is connected; and the previous URL can be retrieved. |  |

## PROACTIVE COMMAND: LAUNCH BROWSER 2.1.1

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

## Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier "Default URL"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 18 | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0B | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: LAUNCH BROWSER 2.1.1

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 2.2 (LAUNCH BROWSER, close the existing browser session and launch new browser session, connect to the default URL)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 0    | ME        | The user is navigating in a browser session (not default URL)..  | [Browser is in use, the current session is not secured]  |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER 2.2.1   |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 2.2.1   | [connect to the default URL, "close the existing browser session and launch new browser session", no null alpha id.]   |
| 4    | ME → USER | ME displays the alpha identifier   |  |
| 5    | USER → ME | The user confirms the launch browser.  | [user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 2.2.1  | [Command performed successfully]   |
| 7    | ME→USS    | The ME closes the existing session and attempts to launch the session with the default browser parameters and the default URL. | [The UE has the option of maintaining the currently active PDP Context. The USS shall handle the request of additional URLs as defined in the initial conditions section.] |
| 8    | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 9    | USER → ME | The user verifies that the default URL is connected.   |  |

**PROACTIVE COMMAND: LAUNCH BROWSER 2.2.1**

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: close the existing browser session and launch new browser session

Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier "Default URL"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 18 | 81 | 03 | 01 | 15 | 03 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0B | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE: LAUNCH BROWSER 2.2.1**

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: close the existing browser session and launch new browser session

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 03 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 2.3 (LAUNCH BROWSER, if not already launched)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        | The user is navigating in a browser session (not default URL).. | [Browser is in use, the current session is not secured]                |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER 2.3.1              |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 2.3.1                      | [connect to the default URL, "launch browser, if not already launched] |
| 4    | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 2.3.1                         | [ME unable to process command - browser unavailable]                   |
| 5    | UICC → ME | PROACTIVE UICC SESSION ENDED                                    |  |
| 6    | USER → ME | The user verifies that the default URL has not been connected.  |  |

PROACTIVE COMMAND: LAUNCH BROWSER 2.3.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0B | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 |    |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 2.3.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Launch browser generic error code  
 Additional data: Browser unavailable

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 02 | 26 |
|          | 02 |    |    |    |    |    |    |    |    |    |    |    |

27.22.4.26.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.3.

#### 27.22.4.26.3 LAUNCH BROWSER (UCS2 display in Cyrillic)

##### 27.22.4.26.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.26.3.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

Additionally the ME shall support the UCS2 facility for the coding of the Cyrillic alphabet, as defined in:

- ISO/IEC 10646 [17].

##### 27.22.4.26.3.3 Test purpose

To verify that the ME performs a proper user confirmation with an USC2 alpha identifier, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.26.3.4 Method of test

###### 27.22.4.26.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default browser parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default browser parameters.

The mobile is busy in a browser session, the user navigates in pages different from the URL defined by default in Wap parameters.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

The browser's cache shall have been cleared before execution of each sequence.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

## 27.22.4.26.3.4.2 Procedure

**Expected Sequence 3.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL, UCS2 in Cyrillic)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        | The user is navigating in a browser session (not default URL)..                             | [Browser is in use, the current session is not secured]  |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER 3.1.1  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 3.1.1  | [connect to the default URL, "use the existing browser", alpha id. In UCS2]                        |
| 4    | ME → USER | ME displays the alpha identifier<br>"ЗДРАВСТВУЙТЕ"  | ["Hello" in Russian]   |
| 5    | USER → ME | The user confirms the launch browser.   | [user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 3.1.1   | [Command performed successfully]   |
| 7    | ME→USS    | The ME does not close the existing session and attempts to connect the default URL.         | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 9    | USER → ME | The user verifies that the default URL is connected; and the previous URL can be retrieved. |  |

## PROACTIVE COMMAND: LAUNCH BROWSER 3.1.1

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

## Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

## Alpha Identifier

Data coding scheme: UCS2 (16 bits)  
 Text: "ЗДРАВСТВУЙТЕ"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 19 | 80 | 04 | 17 | 04 | 14 | 04 | 20 | 04 | 10 |
|          | 04 | 12 | 04 | 21 | 04 | 22 | 04 | 12 | 04 | 23 | 04 | 19 |
|          | 04 | 22 | 04 | 15 |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: LAUNCH BROWSER 3.1.1

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## 27.22.4.26.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequence 3.1.

## 27.22.4.26.4 LAUNCH BROWSER (icons support)

## 27.22.4.26.4.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.26.4.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

## 27.22.4.26.4.3 Test purpose

To verify that the ME performs a proper user confirmation with an icon identifier, launches the browser session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

## 27.22.4.26.4.4 Method of test

## 27.22.4.26.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default browser parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default browser parameters.

The mobile is busy in a browser session, the user navigates in pages different from the URL defined by default in browser parameters.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation. The browser's cache shall have been cleared before execution of each sequence.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

## 27.22.4.26.4.4.2 Procedure

**Expected Sequence 4.1A (LAUNCH BROWSER, use the existing browser, icon not self explanatory, successful)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>4.1.1                                       | [Browser is in use, the current session is not secured]  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 4.1.1  | [connect to the default URL, "use the existing browser", no null alpha id.]                        |
| 4    | ME → USER | ME displays the alpha identifier and the icon   | ["Not self explan."]   |
| 5    | USER → ME | The user confirms the launch browser.   | [user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 A   | [Command performed successfully]   |
| 7    | ME → USS  | The ME does not close the existing session and attempts to connect the default URL.         | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 9    | USER → ME | The user verifies that the default URL is connected; and the previous URL can be retrieved. |  |

## PROACTIVE COMMAND: LAUNCH BROWSER 4.1.1

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

## Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier "Not self explan."

## Icon identifier:

Icon qualifier: not self-explanatory  
 Icon identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

|          |    |    |    |                |                |    |    |    |    |    |    |    |
|----------|----|----|----|----------------|----------------|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 21 | 81 | 03             | 01             | 15 | 02 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 10 | 4E             | 6F             | 74 | 20 | 73 | 65 | 6C | 66 | 20 |
|          | 65 | 78 | 70 | 6 <sup>C</sup> | 6 <sup>T</sup> | 6E | 2E | 1E | 02 | 01 | 01 |    |

## TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 A

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully



Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 4.1B (LAUNCH BROWSER, use the existing browser, icon not self explanatory, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>4.1.1   | [Browser is in use, the current session is not secured]  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 4.1.1  | [connect to the default URL, "use the existing browser", no null alpha id.]                        |
| 4    | ME → USER | ME displays the alpha identifier<br>Without the icon  | ["Not self explan."]   |
| 5    | USER → ME | The user confirms the launch<br>browser.  | [user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 4.1.1 B  | [Command performed successfully but requested icon could not be displayed]                         |
| 7    | ME → USS  | The ME does not close the existing<br>session and attempts to connect<br>the default URL.         | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 9    | USER → ME | The user verifies that the default<br>URL is connected; and the<br>previous URL can be retrieved. |  |

**TERMINAL RESPONSE: LAUNCH BROWSER 4.1.1 B**

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully but requested icon could not be displayed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 4.2A (LAUNCH BROWSER, use the existing browser, icon self explanatory, successful)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>4.2.1                                       | [Browser is in use, the current session is not secured]  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 4.2.1  | [connect to the default URL, "use the existing browser", alpha id. In UCS2]                        |
| 4    | ME → USER | ME displays only the icon   | ["Self explan."]   |
| 5    | USER → ME | The user confirms the launch browser.   | [user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 4.2.1 A  | [Command performed successfully]   |
| 7    | ME→USS    | The ME does not close the existing session and attempts to connect the default URL.         | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 9    | USER → ME | The user verifies that the default URL is connected; and the previous URL can be retrieved. |  |

PROACTIVE COMMAND: LAUNCH BROWSER 4.2.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier: "Self explan."

Icon identifier:

Icon qualifier: self-explanatory  
 Icon identifier: record 1 in EF<sub>(IMG)</sub>

Coding:

| BER-TLV: | D0             | 1D | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 81 | 82 | 31 |
|----------|----------------|----|----|----|----|----|----|----|----|----|----|----|
|          | 00             | 05 | 0C | 53 | 65 | 6C | 66 | 20 | 65 | 78 | 70 | 6C |
|          | 6 <sup>†</sup> | 6E | 2E | 1E | 02 | 00 | 01 |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 A

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 4.2B (LAUNCH BROWSER, use the existing browser, icon self explanatory, requested icon could not be displayed)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>4.2.1                                       | [Browser is in use, the current session is not secured]  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 4.2.1  | [connect to the default URL, "use the existing browser", alpha id. In UCS2]                                    |
| 4    | ME → USER | ME displays only the alpha identifier   | ["Self explan."]   |
| 5    | USER → ME | The user confirms the launch browser.   | [user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 4.2.1 B  | [Command performed successfully]<br>[Command performed successfully but requested icon could not be displayed] |
| 7    | ME→USS    | The ME does not close the existing session and attempts to connect the default URL.         | [The USS shall handle the request of additional URLs as defined in the initial conditions section]             |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 9    | USER → ME | The user verifies that the default URL is connected; and the previous URL can be retrieved. |  |

**TERMINAL RESPONSE: LAUNCH BROWSER 4.2.1 B**

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully but requested icon could not be displayed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 04 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**27.22.4.26.3.5 Test Requirement**

The ME shall operate in the manner defined in expected sequences 4.1A to 4.2B.

**27.22.4.26.5 LAUNCH BROWSER (support of Text Attribute)**

**27.22.4.26.5.1 LAUNCH BROWSER (support of Text Attribute – Left Alignment)**

**27.22.4.26.5.1.1 Definition and applicability**

See clause 3.2.2.

#### 27.22.4.26.5.1.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111[15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

#### 27.22.4.26.5.1.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the left alignment text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.26.5.1.4 Method of test

##### 27.22.4.26.5.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

## 27.22.4.26.5.1.4.2 Procedure

**Expected Sequence 5.1 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Left Alignment)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 0    | ME        |   | [The ME is in idle mode and the browser's cache shall have been cleared.]   |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.1.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.1.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]   |
| 4    | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with left alignment]   |
| 5    | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]   |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.1.1  | [Command performed successfully]  |
| 7    | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section]  |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 9    | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |   |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.1.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.1.2  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]   |
| 13   | ME → USER | ME displays the alpha identifier  | [Message shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/18, no alignment change will take place] |
| 14   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]   |
| 15   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.1.1  | [Command performed successfully]  |
| 16   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section]  |
| 17   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 18   | USER → ME | The user verifies that the default Wap session is properly established.   |   |

## PROACTIVE COMMAND: LAUNCH BROWSER 5.1.1

Logically:

## Command details

Command number: 1  
Command type: LAUNCH BROWSER  
Command qualifier: launch browser, if not already launched

## Device identities

Source device: UICC  
Destination device: ME  
URL: empty

Alpha Identifier "Default URL 1"

Text Attribute

Formatting position: 0

Formatting length: 13

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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 31 | D0 | 04 | 00 | 0D | 00 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.1.2

Logically:

Command details

Command number: 1

Command type: LAUNCH BROWSER

Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC

Destination device: ME

URL empty

Alpha Identifier "Default URL 2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 32 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 5.1.1

Logically:

Command details

Command number: 1

Command type: LAUNCH BROWSER

Command qualifier: launch browser, if not already launched

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.26.5.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.1.

## 27.22.4.26.5.2 LAUNCH BROWSER (support of Text Attribute – Center Alignment)

### 27.22.4.26.5.2.1 Definition and applicability

See clause 3.2.2.

### 27.22.4.26.5.2.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

### 27.22.4.26.5.2.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the center alignment text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

### 27.22.4.26.5.2.4 Method of test

#### 27.22.4.26.5.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

## 27.22.4.26.5.2.4.2 Procedure

**Expected Sequence 5.2 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Center Alignment)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 0    | ME        |   | [The ME is in idle mode and the browser's cache shall have been cleared.]   |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.2.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.2.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]   |
| 4    | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with center alignment]   |
| 5    | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]   |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.2.1  | [Command performed successfully]  |
| 7    | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section]  |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 9    | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |   |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.2.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.2.2  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]   |
| 13   | ME → USER | ME displays the alpha identifier  | [Message shall be formatted without center alignment. Remark: If center alignment is the ME's default alignment as declared in table A.2/18, no alignment change will take place] |
| 14   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]   |
| 15   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.2.1  | [Command performed successfully]  |
| 16   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section]  |
| 17   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 18   | USER → ME | The user verifies that the default Wap session is properly established.   |   |

## PROACTIVE COMMAND: LAUNCH BROWSER 5.2.1

Logically:

## Command details

Command number: 1  
Command type: LAUNCH BROWSER  
Command qualifier: launch browser, if not already launched

## Device identities

Source device: UICC  
Destination device: ME  
URL: empty



Alpha Identifier "Default URL 1"

Text Attribute

Formatting position: 0

Formatting length: 13

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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 31 | D0 | 04 | 00 | 0D | 01 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.2.2

Logically:

Command details

Command number: 1

Command type: LAUNCH BROWSER

Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC

Destination device: ME

URL empty

Alpha Identifier "Default URL 2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 32 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 5.2.1

Logically:

Command details

Command number: 1

Command type: LAUNCH BROWSER

Command qualifier: launch browser, if not already launched

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.26.5.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.2.

### 27.22.4.26.5.3 LAUNCH BROWSER (support of Text Attribute – Right Alignment)

#### 27.22.4.26.5.3.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.26.5.3.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

#### 27.22.4.26.5.3.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the right alignment text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.26.5.3.4 Method of test

##### 27.22.4.26.5.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

Before execution of each sequence the browser's cache shall be cleared.

## 27.22.4.26.5.3.4.2 Procedure

**Expected Sequence 5.3 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Right Alignment)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 0    | ME        |   | [The ME is in idle mode and the browser's cache shall have been cleared.]   |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.3.1   |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.3.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]   |
| 4    | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with right alignment]  |
| 5    | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]   |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.3.1  | [Command performed successfully]  |
| 7    | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section]  |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 9    | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |   |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.3.2   |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.3.2  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]   |
| 13   | ME → USER | ME displays the alpha identifier  | [Message shall be formatted without right alignment. Remark: If right alignment is the ME's default alignment as declared in table A.2/18, no alignment change will take place] |
| 14   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]   |
| 15   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.3.1  | [Command performed successfully]  |
| 16   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section]  |
| 17   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 18   | USER → ME | The user verifies that the default Wap session is properly established.   |   |

## PROACTIVE COMMAND: LAUNCH BROWSER 5.3.1

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

## Device identities

Source device: UICC  
 Destination device: ME

URL empty  
 Alpha Identifier "Default URL 1"  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 31 | D0 | 04 | 00 | 0D | 02 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.3.2

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 URL empty  
 Alpha Identifier "Default URL 2"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 32 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 5.3.1

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.26.5.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.3.

#### 27.22.4.26.5.4 LAUNCH BROWSER (support of Text Attribute – Large Font Size)

##### 27.22.4.26.5.4.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.26.5.4.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

##### 27.22.4.26.5.4.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the large font size text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.26.5.4.4 Method of test

###### 27.22.4.26.5.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

Before execution of each sequence the browser's cache shall be cleared.

## 27.22.4.26.5.4.4.2 Procedure

**Expected Sequence 5.4 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Large Font Size)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        |   | [The ME is in idle mode and the browser's cache shall have been cleared.]                          |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.4.1   |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.4.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 4    | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with large font size]   |
| 5    | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.4.1  | [Command performed successfully]   |
| 7    | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 9    | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.4.2   |  |
| 11   | ME → UICC | FETCH   |  |
| 12   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.4.2  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 13   | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with normal font size]  |
| 14   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 15   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.4.1  | [Command performed successfully]   |
| 16   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 17   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 18   | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 19   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.4.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.4.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 22   | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with large font size]   |
| 23   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 24   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.4.1  | [Command performed successfully]   |

|    |           |   |  |
|----|-----------|---|--|
| 25 | ME→USS    | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 26 | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 27 | USER → ME | The user verifies that the default Wap session is properly established.   |  |
| 28 | UICC → ME | The user shall attempt to close the browser or shall at least set the ME to the idle screen.<br>PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.4.3 |  |
| 29 | ME → UICC | FETCH   |  |
| 30 | UICC → ME | PROACTIVE COMMAND: LAUNCH BROWSER 5.4.3   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 31 | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with normal font size]  |
| 32 | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 33 | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1   | [Command performed successfully]   |
| 34 | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 35 | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 36 | USER → ME | The user verifies that the default Wap session is properly established.   |  |

PROACTIVE COMMAND: LAUNCH BROWSER 5.4.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier "Default URL 1"

Text Attribute

Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 31 | D0 | 04 | 00 | 0D | 04 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.4.2

Logically:

Command details

Command number: 1

Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 URL empty  
 Alpha Identifier "Default URL 2"  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 32 | D0 | 04 | 00 | 0D | 00 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.4.3

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 URL empty  
 Alpha Identifier "Default URL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 33 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|



#### 27.22.4.26.5.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.4.

#### 27.22.4.26.5.5 LAUNCH BROWSER (support of Text Attribute – Small Font Size)

##### 27.22.4.26.5.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.26.5.5.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

##### 27.22.4.26.5.5.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the small font size text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.26.5.5.4 Method of test

###### 27.22.4.26.5.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

## 27.22.4.26.5.5.4.2 Procedure

**Expected Sequence 5.5 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Small Font Size)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        |   | [The ME is in idle mode and the browser's cache shall have been cleared.]                          |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.5.1   |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.5.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 4    | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with small font size]   |
| 5    | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.5.1  | [Command performed successfully]   |
| 7    | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 9    | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.5.2   |  |
| 11   | ME → UICC | FETCH   |  |
| 12   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.5.2  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 13   | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with normal font size]  |
| 14   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 15   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.5.1  | [Command performed successfully]   |
| 16   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 17   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 18   | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 19   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.5.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.5.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 22   | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with small font size]   |
| 23   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 24   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.5.1  | [Command performed successfully]   |

|    |           |   |  |
|----|-----------|---|--|
| 25 | ME→USS    | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 26 | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 27 | USER → ME | The user verifies that the default Wap session is properly established.   |  |
| 28 | UICC → ME | The user shall attempt to close the browser or shall at least set the ME to the idle screen.<br>PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.5.3 |  |
| 29 | ME → UICC | FETCH   |  |
| 30 | UICC → ME | PROACTIVE COMMAND: LAUNCH BROWSER 5.5.3   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 31 | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with normal font size]  |
| 32 | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 33 | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1   | [Command performed successfully]   |
| 34 | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 35 | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 36 | USER → ME | The user verifies that the default Wap session is properly established.   |  |

PROACTIVE COMMAND: LAUNCH BROWSER 5.5.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier "Default URL 1"

Text Attribute

Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 31 | D0 | 04 | 00 | 0D | 08 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.5.2

Logically:

Command details

Command number: 1

Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 URL: empty  
 Alpha Identifier "Default URL 2"  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 32 | D0 | 04 | 00 | 0D | 00 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.5.3

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 URL: empty  
 Alpha Identifier "Default URL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 33 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.26.5.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.5.

#### 27.22.4.26.5.6 LAUNCH BROWSER (support of Text Attribute – Bold on)

##### 27.22.4.26.5.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.26.5.6.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

##### 27.22.4.26.5.6.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the bold text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.26.5.6.4 Method of test

###### 27.22.4.26.5.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

## 27.22.4.26.5.6.4.2 Procedure

**Expected Sequence 5.6 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Bold On)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 0    | ME        |  | [The ME is in idle mode and the browser's cache shall have been cleared.]                          |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.6.1  |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.6.1   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 4    | ME → USER | ME displays the alpha identifier   | [alpha identifier is displayed with bold on]   |
| 5    | USER → ME | The user may have to confirm the launch browser.   | [option: user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.6.1   | [Command performed successfully]   |
| 7    | ME→USS    | The ME attempts to launch the session with the default Wap parameters and the default URL.   | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |
| 9    | USER → ME | The user verifies that the default Wap session is properly established.                      |  |
|      |           | The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.6.2  |  |
| 11   | ME → UICC | FETCH  |  |
| 12   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.6.2   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 13   | ME → USER | ME displays the alpha identifier   | [alpha identifier is displayed with bold off]  |
| 14   | USER → ME | The user may have to confirm the launch browser.   | [option: user confirmation]  |
| 15   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.6.1   | [Command performed successfully]   |
| 16   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.   | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 17   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |
| 18   | USER → ME | The user verifies that the default Wap session is properly established.                      |  |
|      |           | The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 19   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.6.1  |  |
| 20   | ME → UICC | FETCH  |  |
| 21   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.6.1   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 22   | ME → USER | ME displays the alpha identifier   | [alpha identifier is displayed with bold on]   |
| 23   | USER → ME | The user may have to confirm the launch browser.   | [option: user confirmation]  |
| 24   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.6.1   | [Command performed successfully]   |
| 25   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.   | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 26   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |

|    |           |  |  |
|----|-----------|--|--|
| 27 | USER → ME | The user verifies that the default Wap session is properly established.  |  |
| 28 | UICC → ME | The user shall attempt to close the browser or shall at least set the ME to the idle screen.<br>PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER 5.6.3 |  |
| 29 | ME → UICC | FETCH  |  |
| 30 | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.6.3   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 31 | ME → USER | ME displays the alpha identifier   | [alpha identifier is displayed with bold off]  |
| 32 | USER → ME | The user may have to confirm the launch browser.   | [option: user confirmation]  |
| 33 | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1  | [Command performed successfully]   |
| 34 | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.   | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 35 | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 36 | USER → ME | The user verifies that the default Wap session is properly established.  |  |

PROACTIVE COMMAND: LAUNCH BROWSER 5.6.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier "Default URL 1"

Text Attribute

Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 31 | D0 | 04 | 00 | 0D | 10 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.6.2

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME

URL empty  
 Alpha Identifier "Default URL 2"  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 32 | D0 | 04 | 00 | 0D | 00 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.6.3

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 URL empty  
 Alpha Identifier "Default URL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 33 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.26.5.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.6.



27.22.4.26.5.7 LAUNCH BROWSER (support of Text Attribute – Italic On)

27.22.4.26.5.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.7.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.7.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the italic text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.7.4 Method of test

27.22.4.26.5.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

## 27.22.4.26.5.7.4.2 Procedure

**Expected Sequence 5.7 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Italic On)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        |   | [The ME is in idle mode and the browser's cache shall have been cleared.]                          |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.7.1   |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.7.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 4    | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with italic on]   |
| 5    | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.7.1  | [Command performed successfully]   |
| 7    | ME→USS    | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 9    | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.7.2   |  |
| 11   | ME → UICC | FETCH   |  |
| 12   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.7.2  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 13   | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with italic off]  |
| 14   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 15   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.7.1  | [Command performed successfully]   |
| 16   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 17   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 18   | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 19   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.7.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.7.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 22   | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with italic on]   |
| 23   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 24   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.7.1  | [Command performed successfully]   |
| 25   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 26   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |

|    |           |  |  |
|----|-----------|--|--|
| 27 | USER → ME | The user verifies that the default Wap session is properly established.  |  |
| 28 | UICC → ME | The user shall attempt to close the browser or shall at least set the ME to the idle screen.<br>PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER 5.7.3 |  |
| 29 | ME → UICC | FETCH  |  |
| 30 | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.7.3   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 31 | ME → USER | ME displays the alpha identifier   | [alpha identifier is displayed with italic off]  |
| 32 | USER → ME | The user may have to confirm the launch browser.   | [option: user confirmation]  |
| 33 | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1  | [Command performed successfully]   |
| 34 | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.   | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 35 | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 36 | USER → ME | The user verifies that the default Wap session is properly established.  |  |

PROACTIVE COMMAND: LAUNCH BROWSER 5.7.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier "Default URL 1"

Text Attribute

Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 31 | D0 | 04 | 00 | 0D | 20 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.7.2

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME

URL empty  
 Alpha Identifier "Default URL 2"  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 32 | D0 | 04 | 00 | 0D | 00 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.7.3

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 URL empty  
 Alpha Identifier "Default URL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 33 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 5.7.1

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.26.5.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.7.

27.22.4.26.5.8 LAUNCH BROWSER (support of Text Attribute – Underline On)

27.22.4.26.5.8.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.8.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.8.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the underline text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.8.4 Method of test

27.22.4.26.5.8.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

## 27.22.4.26.5.8.4.2 Procedure

**Expected Sequence 5.8 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Underline On)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 0    | ME        |  | [The ME is in idle mode and the browser's cache shall have been cleared.]                          |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.8.1  |  |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.8.1   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 4    | ME → USER | ME displays the alpha identifier   | [alpha identifier is displayed with underline on]  |
| 5    | USER → ME | The user may have to confirm the launch browser.   | [option: user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.8.1   | [Command performed successfully]   |
| 7    | ME→USS    | The ME attempts to launch the session with the default Wap parameters and the default URL.   | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |
| 9    | USER → ME | The user verifies that the default Wap session is properly established.                      |  |
|      |           | The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.8.2  |  |
| 11   | ME → UICC | FETCH  |  |
| 12   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.8.2   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 13   | ME → USER | ME displays the alpha identifier   | [alpha identifier is displayed with underline off]   |
| 14   | USER → ME | The user may have to confirm the launch browser.   | [option: user confirmation]  |
| 15   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.8.1   | [Command performed successfully]   |
| 16   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.   | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 17   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |
| 18   | USER → ME | The user verifies that the default Wap session is properly established.                      |  |
|      |           | The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 19   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.8.1  |  |
| 20   | ME → UICC | FETCH  |  |
| 21   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.8.1   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 22   | ME → USER | ME displays the alpha identifier   | [alpha identifier is displayed with underline on]  |
| 23   | USER → ME | The user may have to confirm the launch browser.   | [option: user confirmation]  |
| 24   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.8.1   | [Command performed successfully]   |
| 25   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.   | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 26   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED  |  |

|    |           |  |  |
|----|-----------|--|--|
| 27 | USER → ME | The user verifies that the default Wap session is properly established.  |  |
| 28 | UICC → ME | The user shall attempt to close the browser or shall at least set the ME to the idle screen.<br>PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER 5.8.3 |  |
| 29 | ME → UICC | FETCH  |  |
| 30 | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.8.3   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 31 | ME → USER | ME displays the alpha identifier   | [alpha identifier is displayed with underline off]   |
| 32 | USER → ME | The user may have to confirm the launch browser.   | [option: user confirmation]  |
| 33 | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1  | [Command performed successfully]   |
| 34 | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.   | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 35 | UICC → ME | PROACTIVE UICC SESSION ENDED   |  |
| 36 | USER → ME | The user verifies that the default Wap session is properly established.  |  |

PROACTIVE COMMAND: LAUNCH BROWSER 5.8.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier "Default URL 1"

Text Attribute

Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 31 | D0 | 04 | 00 | 0D | 40 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.8.2

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME

URL empty  
 Alpha Identifier "Default URL 2"  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 32 | D0 | 04 | 00 | 0D | 00 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.8.3

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: UICC  
 Destination device: ME  
 URL empty  
 Alpha Identifier "Default URL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 33 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1

Logically:

Command details  
 Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.26.5.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.8.



27.22.4.26.5.9 LAUNCH BROWSER (support of Text Attribute – Strikethrough On)

27.22.4.26.5.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.5.9.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

27.22.4.26.5.9.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the strikethrough text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.5.9.4 Method of test

27.22.4.26.5.9.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

## 27.22.4.26.5.9.4.2 Procedure

**Expected Sequence 5.9 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Strikethrough On)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        |   | [The ME is in idle mode and the browser's cache shall have been cleared.]                          |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.9.1   |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.9.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 4    | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with strikethrough on]  |
| 5    | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.9.1  | [Command performed successfully]   |
| 7    | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 9    | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.9.2   |  |
| 11   | ME → UICC | FETCH   |  |
| 12   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.9.2  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 13   | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with strikethrough off]   |
| 14   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 15   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.9.1  | [Command performed successfully]   |
| 16   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 17   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |  |
| 18   | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |  |
| 19   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.9.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.9.1  | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 22   | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with strikethrough on]  |
| 23   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 24   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.9.1  | [Command performed successfully]   |

|    |           |   |  |
|----|-----------|---|--|
| 25 | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 26 | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 27 | USER → ME | The user verifies that the default Wap session is properly established.   |  |
| 28 | UICC → ME | The user shall attempt to close the browser or shall at least set the ME to the idle screen.<br>PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.9.3 |  |
| 29 | ME → UICC | FETCH   |  |
| 30 | UICC → ME | PROACTIVE COMMAND: LAUNCH BROWSER 5.9.3   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]          |
| 31 | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with strikethrough off]   |
| 32 | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]  |
| 33 | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1   | [Command performed successfully]   |
| 34 | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 35 | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 36 | USER → ME | The user verifies that the default Wap session is properly established.   |  |

PROACTIVE COMMAND: LAUNCH BROWSER 5.9.1

Logically:

Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier "Default URL 1"

Text Attribute

Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 31 | D0 | 04 | 00 | 0D | 80 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.9.2

Logically:

Command details

Command number: 1

Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched  
 Device identities  
   Source device: UICC  
   Destination device: ME  
   URL: empty  
 Alpha Identifier "Default URL 2"  
 Text Attribute  
   Formatting position: 0  
   Formatting length: 13  
   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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 32 | D0 | 04 | 00 | 0D | 00 | B4 |    |    |

PROACTIVE COMMAND: LAUNCH BROWSER 5.9.3

Logically:

Command details  
   Command number: 1  
   Command type: LAUNCH BROWSER  
   Command qualifier: launch browser, if not already launched  
 Device identities  
   Source device: UICC  
   Destination device: ME  
   URL: empty  
 Alpha Identifier "Default URL 3"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 33 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: LAUNCH BROWSER 5.9.1

Logically:

Command details  
   Command number: 1  
   Command type: LAUNCH BROWSER  
   Command qualifier: launch browser, if not already launched  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.4.26.5.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.9.

#### 27.22.4.26.5.10 LAUNCH BROWSER (support of Text Attribute – Foreground and Background Colour)

##### 27.22.4.26.5.10.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.26.5.10.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, clause 8.49, clause 8.50, clause 8.15, clause 8.31 and clause 8.70.

##### 27.22.4.26.5.10.3 Test purpose

To verify that the ME performs a proper user confirmation with an alpha identifier according to the foreground and background colour text attribute configuration, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

##### 27.22.4.26.5.10.4 Method of test

###### 27.22.4.26.5.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway")

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

The ME is in idle mode. To ensure that there are no active PDP contexts established until the proactive command is fetched, the USS shall be configured to ignore any PDP context activation request before the LAUNCH BROWSER command is fetched.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

## 27.22.4.26.5.10.4.2 Procedure

**Expected Sequence 5.10 (LAUNCH BROWSER, connect to the default URL with Text Attribute – Foreground and Background Colour)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 0    | ME        |   | [The ME is in idle mode and the browser's cache shall have been cleared.]   |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.10.1  |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.10.1   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]                           |
| 4    | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with foreground and background colour according to the text attribute configuration] |
| 5    | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]   |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.10.1   | [Command performed successfully]  |
| 7    | ME→USS    | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section]                  |
| 8    | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 9    | USER → ME | The user verifies that the default Wap session is properly established.<br>The user shall attempt to close the browser or shall at least set the ME to the idle screen. |   |
| 10   | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER<br>5.10.2  |   |
| 11   | ME → UICC | FETCH   |   |
| 12   | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 5.10.2   | [connect to the default URL, "launch browser, if not already launched", no null alpha id]                           |
| 13   | ME → USER | ME displays the alpha identifier  | [alpha identifier is displayed with ME's default foreground and background colour]                                  |
| 14   | USER → ME | The user may have to confirm the launch browser.  | [option: user confirmation]   |
| 15   | ME → UICC | TERMINAL RESPONSE: LAUNCH<br>BROWSER 5.10.1   | [Command performed successfully]  |
| 16   | ME → USS  | The ME attempts to launch the session with the default Wap parameters and the default URL.  | [The USS shall handle the request of additional URLs as defined in the initial conditions section]                  |
| 17   | UICC → ME | PROACTIVE UICC SESSION<br>ENDED   |   |
| 18   | USER → ME | The user verifies that the default Wap session is properly established.   |   |

## PROACTIVE COMMAND: LAUNCH BROWSER 5.10.1

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

## Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier "Default URL 1"

## Text Attribute

Formatting position: 0  
 Formatting length: 13  
 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 | 20 | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 31 | D0 | 04 | 00 | 0D | 00 | B4 |    |    |

## PROACTIVE COMMAND: LAUNCH BROWSER 5.10.2

## Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

## Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

Alpha Identifier: "Default URL 2"

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1A | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 0D | 44 | 65 | 66 | 61 | 75 | 6C | 74 | 20 | 55 |
|          | 52 | 4C | 20 | 32 |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: LAUNCH BROWSER 5.10.1

## Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: launch browser, if not already launched

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## 27.22.4.26.5.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 5.10.

## 27.22.4.26.6 LAUNCH BROWSER (UCS2 Display in Chinese)

## 27.22.4.26.6.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.26.6.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

Additionally the ME shall support the UCS2 facility for the coding of the Chinese characters, as defined in:

- ISO/IEC 10646 [17].

#### 27.22.4.26.6.3 Test purpose

To verify that the ME performs a proper user confirmation with an USC2 alpha identifier, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

#### 27.22.4.26.6.4 Method of test

##### 27.22.4.26.6.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The mobile is busy in a Wap session, the user navigates in pages different from the URL defined by default in Wap parameters.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

The browser's cache shall have been cleared before execution of the test sequence.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.



## 27.22.4.26.6.4.2 Procedure

**Expected Sequence 6.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL, UCS2 in Chinese)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        | The user is navigating in a Wap session (not default URL).                                  | [Browser is in use, the current session is not secured]  |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER 6.1.1  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 6.1.1  | [connect to the default URL, "use the existing browser", alpha id. In UCS2]                        |
| 4    | ME → USER | ME displays the alpha identifier<br>"你好"  | ["Hello" in Chinese]   |
| 5    | USER → ME | The user confirms the launch browser.   | [user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 6.1.1   | [Command performed successfully]   |
| 7    | ME→USS    | The ME does not close the existing session and attempts to connect the default URL.         | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 9    | USER → ME | The user verifies that the default URL is connected; and the previous URL can be retrieved. |  |

## PROACTIVE COMMAND: LAUNCH BROWSER 6.1.1

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

## Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

## Alpha Identifier

Data coding scheme: UCS2 (16 bits)  
 Text: "你好"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 12 | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 05 | 80 | 4F | 60 | 59 | 7D |    |    |    |    |

## TERMINAL RESPONSE: LAUNCH BROWSER 6.1.1

Logically:

## Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

27.22.4.26.6.5 Test requirement

The ME shall operate in the manner defined in expected sequence 7.1.

27.22.4.26.7 LAUNCH BROWSER (UCS2 Display in Katakana)

27.22.4.26.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.26.7.2 Conformance requirements

The ME shall support the LAUNCH BROWSER Proactive UICC Command as defined in:

- TS 31.111 [15] clause 5.2, clauses 6.4.26 and 6.6.26, clause 8.6, clause 8.7, clause 8.48, clause 9.2, clause 8.2, clause 8.47, optional clause 8.49, optional clause 8.50, clause 8.15 and clause 8.31.

Additionally the ME shall support the UCS2 facility for the coding of the Katakana characters, as defined in:

- ISO/IEC 10646 [17].

27.22.4.26.7.3 Test purpose

To verify that the ME performs a proper user confirmation with an USC2 alpha identifier, launches the Wap session required in LAUNCH BROWSER and returns a successful result in the TERMINAL RESPONSE command send to the UICC.

27.22.4.26.7.4 Method of test

27.22.4.26.7.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

A valid access to 2 different Wap gateways is required:

- the default Wap parameters (IP address, gateway/proxy identity, called number, URL ...) of the tested mobile shall be properly filled to access one of the gateways ("default gateway").

With that default gateway we shall be able to access to an URL different from the default one.

- another gateway with an IP address different from the one defined in default Wap parameters.

The mobile is busy in a Wap session, the user navigates in pages different from the URL defined by default in Wap parameters.

For URL requests resulting from the LAUNCH BROWSER command execution the USS shall be configured to respond with an HTTP status error code (4xx "Client Error" or 5xx "Server Error") to URL requests which do not match the Default URL or the URL provided in the proactive command. At the same time the USS shall ignore these URL requests regarding the test case verdict generation.

The browser's cache shall have been cleared before execution of the test sequence.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

#### 27.22.4.26.7.4.2 Procedure

### Expected Sequence 7.1 (LAUNCH BROWSER, use the existing browser, connect to the default URL, UCS2 in Katakana)

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 0    | ME        | The user is navigating in a Wap session (not default URL).                                  | [Browser is in use, the current session is not secured]]   |
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: LAUNCH BROWSER 7.1.1  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>LAUNCH BROWSER 7.1.1  | [connect to the default URL, "use the existing browser", alpha id. In UCS2]                        |
| 4    | ME → USER | ME displays the alpha identifier "ル"  | [Character in Katakana]  |
| 5    | USER → ME | The user confirms the launch browser.   | [user confirmation]  |
| 6    | ME → UICC | TERMINAL RESPONSE: LAUNCH BROWSER 7.1.1   | [Command performed successfully]   |
| 7    | ME → USS  | The ME does not close the existing session and attempts to connect the default URL.         | [The USS shall handle the request of additional URLs as defined in the initial conditions section] |
| 8    | UICC → ME | PROACTIVE UICC SESSION ENDED  |  |
| 9    | USER → ME | The user verifies that the default URL is connected; and the previous URL can be retrieved. |  |

#### PROACTIVE COMMAND: LAUNCH BROWSER 7.1.1

Logically:

##### Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

##### Device identities

Source device: UICC  
 Destination device: ME  
 URL: empty

##### Alpha Identifier

Data coding scheme: UCS2 (16 bits)  
 Text: "ル"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 10 | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 81 | 82 | 31 |
|          | 00 | 05 | 03 | 80 | 30 | EB |    |    |    |    |    |    |

#### TERMINAL RESPONSE: LAUNCH BROWSER 7.1.1

Logically:

##### Command details

Command number: 1  
 Command type: LAUNCH BROWSER  
 Command qualifier: use the existing browser

##### Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 15 | 02 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## 27.22.4.26.7.5 Test requirement

The ME shall operate in the manner defined in expected sequence 7.1.

## 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 (OPEN CHANNEL, immediate link establishment, GPRS, no local address, no alpha identifier, no network access name)**

| Step | Direction | MESSAGE / Action  | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | USER → ME | Set and activate APN "TestGp.rs" in the terminal configuration if required                    | [see initial conditions]         |
| 2    | UICC → ME | PROACTIVE COMMAND PENDING:<br>OPEN CHANNEL 2.1.1  |                                  |
| 3    | ME → UICC | FETCH   |                                  |
| 4    | UICC → ME | PROACTIVE COMMAND : OPEN<br>CHANNEL 2.1.1   |                                  |
| 5    | ME → user | The ME may display channel opening information  |                                  |
| 6    | ME → USS  | PDP context activation request  |                                  |
| 7    | USS → ME  | PDP context activation accept   |                                  |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN<br>CHANNEL 2.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 2.1.1B | [Command performed successfully] |

PROACTIVE COMMAND: OPEN CHANNEL 2.1.1

Logically:

## Command details

Command number: 1  
 Command type: OPEN CHANNEL  
 Command qualifier: immediate link establishment

## Device identities

Source device: 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   |                                  |
| 6    | USS → ME  | PDP context activation accept  |                                  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.2.1A<br>or<br>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   |                                  |
| 7    | USS → ME  | PDP context activation accept  |                                  |
| 8    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.1.1A<br>or<br>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<br>PENDING: OPEN CHANNEL<br>2.4.1  |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>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   |   |
| 7    | USS → ME  | PDP context activation accept  |   |
| 8    | ME → UICC | TERMINAL RESPONSE:<br>OPEN CHANNEL 2.1.1A<br>or<br>TERMINAL RESPONSE:<br>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<br>PENDING: OPEN CHANNEL<br>2.5.1  |                                       |
| 2    | ME → UICC | FETCH  |                                       |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 2.5.1   |                                       |
| 4    | ME → user | The ME may display channel<br>opening information  |                                       |
| 5    | ME → USS  | PDP context activation request   |                                       |
| 6    | USS → ME  | PDP context activation accept  |                                       |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 2.5.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>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<br>PENDING: OPEN CHANNEL<br>2.7.1  |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 2.7.1   |   |
| 4    | ME → user | Confirmation phase with alpha<br>ID  | [The ME shall display 'Open ID']            |
| 5    | user → ME | The user rejects   |   |
| 6    | ME → USS  | No PDP context activation<br>request is sent to the USS                                      |   |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 2.7.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>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<br>PENDING: OPEN CHANNEL<br>2.7.1  |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 2.7.1   |   |
| 4    | ME → USS  | PDP context activation request   |   |
| 5    | USS → ME  | PDP context activation accept  |   |
| 6    | ME → user | Confirmation phase with alpha<br>ID  | [The ME shall display 'Open ID']            |
| 7    | user → ME | The user rejects   |   |
| 8    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 2.7.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>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 | 1<br>F | 02 | Note 2 |    |
| Note1: The presence and content of the Channel Status TLV shall not be verified.<br>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 verified

## 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: 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 | 1<br>F | 02 | Note 2 |    |
| Note1: The presence and content of the Channel Status TLV shall not be verified.<br>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   |                                  |
| 6    | USS → ME  | PDP context activation accept  |                                  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.9.1A<br>or<br>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]<br>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   |   |
| 10   | USS → ME  | PDP context activation accept  |   |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 2.10.2A<br>or<br>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 |    |    |    |    |    |

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 2.1 to 2.10.

#### 27.22.4.27.3 Open Channel (default bearer)

TBD

#### 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  |   |
| 7    | USS → ME  | PDP context activation accept   |   |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.1.1A<br>or<br>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  |   |
| 21   | USS → ME  | PDP context activation accept   |   |
| 22   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.1.1A<br>or<br>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   |   |
| 7    | USS → ME  | PDP context activation accept  |   |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.2.1A<br>or<br>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   |   |
| 21   | USS → ME  | PDP context activation accept  |   |
| 22   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.2.1A<br>or<br>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   |   |
| 7    | USS → ME  | PDP context activation accept  |   |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.3.1A<br>or<br>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   |   |
| 21   | USS → ME  | PDP context activation accept  |   |
| 22   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.3.1A<br>or<br>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   |   |
| 7    | USS → ME  | PDP context activation accept  |   |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A<br>or<br>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   |   |
| 21   | USS → ME  | PDP context activation accept  |   |
| 22   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A<br>or<br>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   |   |
| 35   | USS → ME  | PDP context activation accept  |   |
| 36   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A<br>or<br>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   |   |
| 49 | USS → ME  | PDP context activation accept  |   |
| 50 | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A<br>or<br>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   |   |
| 7    | USS → ME  | PDP context activation accept  |   |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.5.1A<br>or<br>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   |   |
| 21   | USS → ME  | PDP context activation accept  |   |
| 22   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.5.1A<br>or<br>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   |   |
| 35   | USS → ME  | PDP context activation accept  |   |
| 36   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.5.1A<br>or<br>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                 |   |
| 49 | USS → ME  | PDP context activation accept                  |   |
| 50 | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.5.1A        | [Command performed successfully]                      |
|    |           | or   |   |
|    |           | TERMINAL RESPONSE : OPEN CHANNEL 5.5.1B        |   |
| 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   |   |
| 7    | USS → ME  | PDP context activation accept  |   |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A<br>or<br>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   |   |
| 21   | USS → ME  | PDP context activation accept  |   |
| 22   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A<br>or<br>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   |   |
| 35   | USS → ME  | PDP context activation accept  |   |
| 36   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A<br>or<br>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   |   |
| 49 | USS → ME  | PDP context activation accept  |   |
| 50 | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A<br>or<br>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   |   |
| 7    | USS → ME  | PDP context activation accept  |   |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A<br>or<br>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   |   |
| 21   | USS → ME  | PDP context activation accept  |   |
| 22   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A<br>or<br>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   |   |
| 35   | USS → ME  | PDP context activation accept  |   |
| 36   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A<br>or<br>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   |   |
| 49 | USS → ME  | PDP context activation accept  |   |
| 50 | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A<br>or<br>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   |  |
| 7    | USS → ME  | PDP context activation accept  |  |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.8.1A<br>or<br>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   |  |
| 21   | USS → ME  | PDP context activation accept  |  |
| 22   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 5.8.1A<br>or<br>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   |  |
| 35   | USS → ME  | PDP context activation accept  |  |
| 36   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.8.1A<br>or<br>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                 |  |
| 49 | USS → ME  | PDP context activation accept                  |  |
| 50 | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.8.1A        | [Command performed successfully]                   |
|    |           | or   |  |
|    |           | TERMINAL RESPONSE : OPEN CHANNEL 5.8.1B        |  |
| 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   |  |
| 7    | USS → ME  | PDP context activation accept  |  |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A<br>or<br>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   |  |
| 21   | USS → ME  | PDP context activation accept  |  |
| 22   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A<br>or<br>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   |  |
| 35   | USS → ME  | PDP context activation accept  |  |
| 36   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A<br>or<br>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                 |  |
| 49 | USS → ME  | PDP context activation accept                  |  |
| 50 | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A        | [Command performed successfully]                       |
|    |           | or   |  |
|    |           | TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B        |  |
| 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   |   |
| 7    | USS → ME  | PDP context activation accept  |   |
| 8    | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.10.1A<br>or<br>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   |   |
| 21   | USS → ME  | PDP context activation accept  |   |
| 22   | ME → UICC | TERMINAL RESPONSE : OPEN CHANNEL 5.10.1A<br>or<br>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,
- 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.

##### 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 accessing 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 Default EPS bearer when the user rejects the user confirmation of the Open Channel command.

#### 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. 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

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.

#### 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]          |
| 2    | UICC → ME  | PROACTIVE COMMAND PENDING:<br>OPEN CHANNEL 6.1.1                            |                                   |
| 3    | ME → UICC  | FETCH   |                                   |
| 4    | UICC → ME  | PROACTIVE COMMAND : OPEN<br>CHANNEL 6.1.1                                   |                                   |
| 5    | ME → USER  | The ME may display channel opening<br>information                           |                                   |
| 6    | ME → E-USS | PDN CONNECTIVITY REQUEST  |                                   |
| 7    | E-USS → ME | ACTIVATE DEFAULT EPS BEARER<br>CONTEXT REQUEST                              | [The E-UTRAN parameters are used] |
| 8    | ME → E-USS | ACTIVATE DEFAULT EPS BEARER<br>CONTEXT ACCEPT                               |                                   |
| 9    | ME → UICC  | TERMINAL RESPONSE : OPEN<br>CHANNEL 6.1.1                                   | [Command performed successfully]  |

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 6.1.1

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  
 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 |    |    |    |    |    |    |    |

**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:<br>OPEN CHANNEL 6.2.1   |   |
| 3    | ME → UICC      | FETCH  |   |
| 4    | UICC → ME      | PROACTIVE COMMAND : OPEN<br>CHANNEL 6.2.1  | The "TestGp.rs" APN is requested  |
| 5    | ME → USER      | The ME may display channel opening<br>information  |   |
| 6    | ME → E-USS     | PDN CONNECTIVITY REQUEST   | The PDN CONNECTIVITY REQUEST shall<br>contain APN value "TestGp.rs"   |
| 7    | E-USS → ME     | ACTIVATE DEFAULT EPS BEARER<br>CONTEXT REQUEST   | [The E-UTRAN parameters are used with the<br>exception that the "EPS Quality of Service"<br>information element contains QCI = 9 and the<br>maximum and guaranteed bit rates for uplink<br>and downlink shall all be set to 64kbps. The<br>bytes for the extended bit rate values shall not<br>be present in the "EPS Quality of Service" IE] |
| 8    | ME → E-USS     | ACTIVATE DEFAULT EPS BEARER<br>CONTEXT ACCEPT  |   |
| 9    | ME → UICC      | TERMINAL RESPONSE : OPEN<br>CHANNEL 6.2.1A<br>OR<br>TERMINAL RESPONSE : OPEN<br>CHANNEL 6.2.1B | [Command performed successfully<br>OR<br>Command performed with modifications]  |
| 10   | UICC → ME      | PROACTIVE COMMAND PENDING:<br>CLOSE CHANNEL 3.1.1  |   |
| 11   | ME → UICC      | FETCH  |   |
| 12   | UICC → ME      | PROACTIVE COMMAND : CLOSE<br>CHANNEL 3.1.1   | The ME can deactivate the EPS bearer  |
| 13   | ME → UICC      | TERMINAL RESPONSE : CLOSE<br>CHANNEL 3.1.1   |   |
| 14   | UICC → ME      | PROACTIVE COMMAND PENDING:<br>OPEN CHANNEL 6.2.2   | The "Test12.rs" APN is requested  |
| 15   | ME → UICC      | FETCH  |   |
| 16   | UICC → ME      | PROACTIVE COMMAND : OPEN<br>CHANNEL 6.2.2  |   |
| 17   | ME → USER      | The ME may display channel opening<br>information  |   |
| 18   | ME → E-<br>USS | PDN CONNECTIVITY REQUEST   | The PDN CONNECTIVITY REQUEST shall<br>contain APN value "Test12.rs"   |
| 19   | E-USS →<br>ME  | ACTIVATE DEFAULT EPS BEARER<br>CONTEXT REQUEST   | [The E-UTRAN parameters are used with the<br>exception that the "EPS Quality of Service"<br>information element contains only the QCI<br>which shall be set to "9"]<br>[second PDN context activated]   |
| 20   | ME → E-<br>USS | ACTIVATE DEFAULT EPS BEARER<br>CONTEXT ACCEPT  |   |
| 21   | ME → UICC      | TERMINAL RESPONSE : OPEN<br>CHANNEL 6.2.2A<br>OR<br>TERMINAL RESPONSE : OPEN<br>CHANNEL 6.2.2B | [Command performed successfully<br>OR<br>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]   |
| 2    | UICC → ME  | PROACTIVE COMMAND PENDING:<br>OPEN CHANNEL 6.3.1   |  |
| 3    | ME → UICC  | FETCH  |  |
| 4    | UICC → ME  | PROACTIVE COMMAND : OPEN<br>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 | PDN CONNECTIVITY REQUEST   | [The PDN CONNECTIVITY REQUEST shall contain the APN "Test12.rs"]   |
| 8    | USS → ME   | ACTIVATE DEFAULT EPS BEARER<br>CONTEXT REQUEST   | [The E-UTRAN parameters are used]  |
| 8    | ME → E-USS | ACTIVATE DEFAULT EPS BEARER<br>CONTEXT ACCEPT  |  |
| 9    | ME → UICC  | TERMINAL RESPONSE : OPEN<br>CHANNEL 6.1.1  | [Command performed successfully]   |

## 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]                                    |
| 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 | 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 | 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 |    |    |    |    |    |    |
|          | <p>Note 1: The presence and content of the Channel Status TLV shall not be verified.</p> <p>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.</p> |    |    |    |    |        |    |    |    |    |    |    |

**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]         |
| 2    | UICC → ME  | PROACTIVE COMMAND PENDING:<br>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 | The terminal shall not send a PDN CONNECTIVITY REQUEST to the network                    |                                  |
| 7    | ME → UICC  | TERMINAL RESPONSE : OPEN CHANNEL 6.5.1A<br>or<br>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 |    |    |    |

#### 27.22.4.27.6.5 Test requirement

The ME shall operate in the manner defined in expected sequences 6.1 to 6.5.

#### 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 EF<sub>UICCIARI</sub> 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 exceptions is used:

#### **EF<sub>UST</sub> (USIM Service Table)**

EF<sub>UST</sub> shall be configured as defined in 27.22.2A with the exception that Service 95 "support of UICC access to IMS" is available.

#### **EF<sub>UICCIARI</sub> (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:<br>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<br>EVENT LIST 7.1.1   |  |
| 4    | ME → UICC            | TERMINAL RESPONSE: SET UP<br>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 initial registration to the IMS network.  | [The SIP REGISTER for the initial 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 –<br>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<br>NWS → ME | ME attempts to register to IMS services with values derived from the USIM and additionally registers the IARI from EF <sub>UICCIARI</sub> during the initial 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 –<br>IMS registration 7.1.2  | [After the IARI "urn:ur-7:3gpp-application.ims.iari.uicctest" has been successfully registered during the initial or a subsequent SIP REGISTER message containing this IARI.<br><br>If the IARI "urn:ur-7:3gpp-application.ims.iari.uicctest" is not registered during the initial 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:<br>OPEN CHANNEL 7.1.1  |  |
| 12   | ME → UICC            | FETCH   |  |
| 13   | UICC → ME            | PROACTIVE COMMAND : OPEN<br>CHANNEL for IMS 7.1.1   |  |
| 14   | ME                   | Channel id, buffer assigned   |  |
| 15   | ME → UICC            | TERMINAL RESPONSE : OPEN<br>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<br>1 | 19 | 01 | 17 | 82 | 02 | 83 | 81 | 77 | Note<br>2 | Note<br>3 |
| Note 1: The TLV length depends on the IMPU list content<br>Note 2: The IMPU TLV length depends on the IMPU list entries.<br>Note 3: The IMPU list shall contain the IMPU "urn:ur-7:3gpp-application.ims.iari.uicctest" and<br>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.

## 27.22.4.28 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<br>PENDING: OPEN CHANNEL<br>1.1.1  | See initial conditions           |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |                                  |
| 4    | ME → USER | The ME may display channel<br>opening information  |                                  |
| 5    | ME → USS  | PDP context activation request   |                                  |
| 6    | USS → ME  | PDP context activation accept  |                                  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully] |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>1.1.1   |                                  |
| 9    | ME → UICC | FETCH  |                                  |
| 10   | UICC → ME | PROACTIVE COMMAND:<br>CLOSE CHANNEL 1.1.1  |                                  |
| 11   | ME → USS  | PDP context deactivation<br>request  |                                  |
| 12   | USS → ME  | PDP context deactivation accept  |                                  |
| 13   | ME → UICC | TERMINAL RESPONSE CLOSE<br>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<br>PENDING: OPEN CHANNEL<br>1.1.1  | See initial conditions           |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |                                  |
| 4    | ME → USER | The ME may display channel<br>opening information  |                                  |
| 5    | ME → USS  | PDP context activation request   |                                  |
| 6    | USS → ME  | PDP context activation accept  |                                  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully] |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>1.2.1   |                                  |
| 9    | ME → UICC | FETCH  |                                  |
| 10   | UICC → ME | PROACTIVE COMMAND:<br>CLOSE CHANNEL 1.2.1  |                                  |
| 11   | ME → UICC | TERMINAL RESPONSE CLOSE<br>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:<br>OPEN CHANNEL 1.1.1   | See initial conditions                               |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: OPEN<br>CHANNEL 1.1.1   |  |
| 4    | ME → USER | The ME may display channel opening<br>information  |  |
| 5    | ME → USS  | PDP context activation request   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                     |
| 8    | UICC → ME | PROACTIVE COMMAND PENDING:<br>CLOSE CHANNEL 1.1.1  |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 1.1.1  |  |
| 11   | ME → USS  | PDP context deactivation request   |  |
| 12   | USS → ME  | PDP context deactivation accept  |  |
| 13   | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 1.1.1   | [Command performed successfully]                     |
| 14   | UICC → ME | PROACTIVE COMMAND PENDING:<br>CLOSE CHANNEL 1.3.1  |  |
| 15   | ME → UICC | FETCH  |  |
| 16   | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 1.3.1  |  |
| 17   | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 1.3.1A<br>or<br>TERMINAL RESPONSE CLOSE<br>CHANNEL 1.3.1B | [Channel closed]<br><br>[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 |    |    |    |    |    |    |    |    |    |    |    |

27.22.4.28.5 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<br>PENDING: OPEN CHANNEL<br>1.1.1  | See initial conditions   |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 4    | ME → USER | The ME may display channel<br>opening information  |  |
| 5    | ME → USS  | PDP context activation request   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.1.1A  |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND:<br>CLOSE CHANNEL 2.1.1  | [alpha identifier is displayed with left<br>alignment]   |
| 11   | ME → USS  | PDP context deactivation<br>request  |  |
| 12   | USS → ME  | PDP context deactivation accept  |  |
| 13   | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.1.1   | [Command performed successfully]   |
| 14   | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL<br>1.1.1  |  |
| 15   | ME → UICC | FETCH  |  |
| 16   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 17   | ME → USER | The ME may display channel<br>opening information  |  |
| 18   | ME → USS  | PDP context activation request   |  |
| 19   | USS → ME  | PDP context activation accept  |  |
| 20   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]   |
| 21   | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.1.2   |  |
| 22   | ME → UICC | FETCH  |  |
| 23   | UICC → ME | PROACTIVE COMMAND:<br>CLOSE CHANNEL 2.1.2  | [Message shall be formatted without left<br>alignment. Remark: If left alignment is the<br>ME"s default alignment as declared in table<br>A.2/20, no alignment change will take place] |
| 24   | ME → USS  | PDP context deactivation<br>request  |  |
| 25   | USS → ME  | PDP context deactivation accept  |  |
| 26   | ME → UICC | TERMINAL RESPONSE CLOSE<br>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<br>PENDING: OPEN CHANNEL<br>1.1.1  | See initial conditions   |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 4    | ME → USER | The ME may display channel<br>opening information  |  |
| 5    | ME → USS  | PDP context activation request   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.2.1   |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND:<br>CLOSE CHANNEL 2.2.1  | [alpha identifier is displayed with center<br>alignment]   |
| 11   | ME → USS  | PDP context deactivation<br>request  |  |
| 12   | USS → ME  | PDP context deactivation accept  |  |
| 13   | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.2.1   | [Command performed successfully]   |
| 14   | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL<br>1.1.1  |  |
| 15   | ME → UICC | FETCH  |  |
| 16   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 17   | ME → USER | The ME may display channel<br>opening information  |  |
| 18   | ME → USS  | PDP context activation request   |  |
| 19   | USS → ME  | PDP context activation accept  |  |
| 20   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]   |
| 21   | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.2.2   |  |
| 22   | ME → UICC | FETCH  |  |
| 23   | UICC → ME | PROACTIVE COMMAND:<br>CLOSE CHANNEL 2.2.2  | [Message shall be formatted without center<br>alignment. Remark: If center alignment is the<br>ME"s default alignment as declared in table<br>A.2/20, no alignment change will take place] |
| 24   | ME → USS  | PDP context deactivation<br>request  |  |
| 25   | USS → ME  | PDP context deactivation accept  |  |
| 26   | ME → UICC | TERMINAL RESPONSE CLOSE<br>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:<br>OPEN CHANNEL 1.1.1                                       | See initial conditions  |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 4    | ME → USER | The ME may display channel opening information   |   |
| 5    | ME → USS  | PDP context activation request   |   |
| 6    | USS → ME  | PDP context activation accept  |   |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]  |
| 8    | UICC → ME | PROACTIVE COMMAND PENDING:<br>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:<br>OPEN CHANNEL 1.1.1                                       |   |
| 15   | ME → UICC | FETCH  |   |
| 16   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 17   | ME → USER | The ME may display channel opening information   |   |
| 18   | ME → USS  | PDP context activation request   |   |
| 19   | USS → ME  | PDP context activation accept  |   |
| 20   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]  |
| 21   | UICC → ME | PROACTIVE COMMAND PENDING:<br>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<br>PENDING: OPEN CHANNEL 1.1.1   | See initial conditions                                   |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 4    | ME → USER | The ME may display channel<br>opening information  |  |
| 5    | ME → USS  | PDP context activation request   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                         |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.4.1   |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.4.1  | [alpha identifier is displayed with large font<br>size]  |
| 11   | ME → USS  | PDP context deactivation request   |  |
| 12   | USS → ME  | PDP context deactivation accept  |  |
| 13   | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.4.1   | [Command performed successfully]                         |
| 14   | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |  |
| 15   | ME → UICC | FETCH  |  |
| 16   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 17   | ME → USER | The ME may display channel<br>opening information  |  |
| 18   | ME → USS  | PDP context deactivation request   |  |
| 19   | USS → ME  | PDP context deactivation accept  |  |
| 20   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                         |
| 21   | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.4.2   |  |
| 22   | ME → UICC | FETCH  |  |
| 23   | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.4.2  | [alpha identifier is displayed with normal font<br>size] |
| 24   | ME → USS  | PDP context deactivation request   |  |
| 25   | USS → ME  | PDP context deactivation accept  |  |
| 26   | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.4.1   | [Command performed successfully]                         |
| 27   | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |  |
| 28   | ME → UICC | FETCH  |  |
| 29   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 30   | ME → USER | The ME may display channel<br>opening information  |  |
| 31   | ME → USS  | PDP context activation request   |  |
| 32   | USS → ME  | PDP context activation accept  |  |
| 33   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                         |

|    |           |  |  |
|----|-----------|--|--|
| 34 | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.4.1   |  |
| 35 | ME → UICC | FETCH  |  |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.4.1  | [alpha identifier is displayed with large font<br>size]  |
| 37 | ME → USS  | PDP context deactivation request   |  |
| 38 | USS → ME  | PDP context deactivation accept  |  |
| 39 | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.4.1   | [Command performed successfully]                         |
| 40 | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |  |
| 41 | ME → UICC | FETCH  |  |
| 42 | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 43 | ME → USER | The ME may display channel<br>opening information  |  |
| 44 | ME → USS  | PDP context activation request   |  |
| 45 | USS → ME  | PDP context activation accept  |  |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                         |
| 47 | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.4.3   |  |
| 48 | ME → UICC | FETCH  |  |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.4.3  | [alpha identifier is displayed with normal font<br>size] |
| 50 | ME → USS  | PDP context deactivation request   |  |
| 51 | USS → ME  | PDP context deactivation accept  |  |
| 52 | ME → UICC | TERMINAL RESPONSE CLOSE<br>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<br>PENDING: OPEN CHANNEL 1.1.1   | See initial conditions                                   |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 4    | ME → USER | The ME may display channel<br>opening information  |  |
| 5    | ME → USS  | PDP context activation request   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                         |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.5.1   |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.5.1  | [alpha identifier is displayed with small font<br>size]  |
| 11   | ME → USS  | PDP context deactivation request   |  |
| 12   | USS → ME  | PDP context deactivation accept  |  |
| 13   | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.5.1   | [Command performed successfully]                         |
| 14   | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |  |
| 15   | ME → UICC | FETCH  |  |
| 16   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 17   | ME → USER | The ME may display channel<br>opening information  |  |
| 18   | ME → USS  | PDP context activation request   |  |
| 19   | USS → ME  | PDP context activation accept  |  |
| 20   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                         |
| 21   | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.5.2   |  |
| 22   | ME → UICC | FETCH  |  |
| 23   | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.5.2  | [alpha identifier is displayed with normal font<br>size] |
| 24   | ME → USS  | PDP context deactivation request   |  |
| 25   | USS → ME  | PDP context deactivation accept  |  |
| 26   | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.5.1   | [Command performed successfully]                         |
| 27   | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |  |
| 28   | ME → UICC | FETCH  |  |
| 29   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 30   | ME → USER | The ME may display channel<br>opening information  |  |
| 31   | ME → USS  | PDP context activation request   |  |
| 32   | USS → ME  | PDP context activation accept  |  |
| 33   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                         |

|    |           |  |  |
|----|-----------|--|--|
| 34 | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.5.1   |  |
| 35 | ME → UICC | FETCH  |  |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.5.1  | [alpha identifier is displayed with small font<br>size]  |
| 37 | ME → USS  | PDP context deactivation request   |  |
| 38 | USS → ME  | PDP context deactivation accept  |  |
| 39 | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.5.1   | [Command performed successfully]                         |
| 40 | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |  |
| 41 | ME → UICC | FETCH  |  |
| 42 | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 43 | ME → USER | The ME may display channel<br>opening information  |  |
| 44 | ME → USS  | PDP context activation request   |  |
| 45 | USS → ME  | PDP context activation accept  |  |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                         |
| 47 | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.5.3   |  |
| 48 | ME → UICC | FETCH  |  |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.5.3  | [alpha identifier is displayed with normal font<br>size] |
| 50 | ME → USS  | PDP context deactivation request   |  |
| 51 | USS → ME  | PDP context deactivation accept  |  |
| 52 | ME → UICC | TERMINAL RESPONSE CLOSE<br>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<br>PENDING: OPEN CHANNEL 1.1.1                                       | See initial conditions                        |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 4    | ME → USER | The ME may display channel opening information   |   |
| 5    | ME → USS  | PDP context activation request   |   |
| 6    | USS → ME  | PDP context activation accept  |   |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]              |
| 8    | UICC → ME | PROACTIVE COMMAND<br>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<br>PENDING: OPEN CHANNEL 1.1.1                                       |   |
| 15   | ME → UICC | FETCH  |   |
| 16   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 17   | ME → USER | The ME may display channel opening information   |   |
| 18   | ME → USS  | PDP context activation request   |   |
| 19   | USS → ME  | PDP context activation accept  |   |
| 20   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]              |
| 21   | UICC → ME | PROACTIVE COMMAND<br>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<br>PENDING: OPEN CHANNEL 1.1.1                                       |   |
| 28   | ME → UICC | FETCH  |   |
| 29   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 30   | ME → USER | The ME may display channel opening information   |   |
| 31   | ME → USS  | PDP context activation request   |   |
| 32   | USS → ME  | PDP context activation accept  |   |
| 33   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]              |

|    |           |  |   |
|----|-----------|--|---|
| 34 | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.6.1   |   |
| 35 | ME → UICC | FETCH  |   |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE<br>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<br>CHANNEL 2.6.1   | [Command performed successfully]              |
| 40 | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |   |
| 41 | ME → UICC | FETCH  |   |
| 42 | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 43 | ME → USER | The ME may display channel<br>opening information  |   |
| 44 | ME → USS  | PDP context activation request   |   |
| 45 | USS → ME  | PDP context activation accept  |   |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]              |
| 47 | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.6.3   |   |
| 48 | ME → UICC | FETCH  |   |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE<br>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<br>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<br>PENDING: OPEN CHANNEL 1.1.1   | See initial conditions                        |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 4    | ME → USER | The ME may display channel<br>opening information  |   |
| 5    | ME → USS  | PDP context activation request   |   |
| 6    | USS → ME  | PDP context activation accept  |   |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]              |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.7.1   |   |
| 9    | ME → UICC | FETCH  |   |
| 10   | UICC → ME | PROACTIVE COMMAND: CLOSE<br>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<br>CHANNEL 2.7.1   | [Command performed successfully]              |
| 14   | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |   |
| 15   | ME → UICC | FETCH  |   |
| 16   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 17   | ME → USER | The ME may display channel<br>opening information  |   |
| 18   | ME → USS  | PDP context activation request   |   |
| 19   | USS → ME  | PDP context activation accept  |   |
| 20   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]              |
| 21   | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.6.2   |   |
| 22   | ME → UICC | FETCH  |   |
| 23   | UICC → ME | PROACTIVE COMMAND: CLOSE<br>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<br>CHANNEL 2.7.1   | [Command performed successfully]              |
| 27   | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |   |
| 28   | ME → UICC | FETCH  |   |
| 29   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 30   | ME → USER | The ME may display channel<br>opening information  |   |
| 31   | ME → USS  | PDP context activation request   |   |
| 32   | USS → ME  | PDP context activation accept  |   |
| 33   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]              |

|    |           |  |   |
|----|-----------|--|---|
| 34 | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.7.1   |   |
| 35 | ME → UICC | FETCH  |   |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE<br>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<br>CHANNEL 2.7.1   | [Command performed successfully]              |
| 40 | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |   |
| 41 | ME → UICC | FETCH  |   |
| 42 | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 43 | ME → USER | The ME may display channel<br>opening information  |   |
| 44 | ME → USS  | PDP context activation request   |   |
| 45 | USS → ME  | PDP context activation accept  |   |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]              |
| 47 | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.7.3   |   |
| 48 | ME → UICC | FETCH  |   |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE<br>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<br>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<br>PENDING: OPEN CHANNEL 1.1.1                                       | See initial conditions                             |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 4    | ME → USER | The ME may display channel opening information   |  |
| 5    | ME → USS  | PDP context activation request   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]                   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>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<br>PENDING: OPEN CHANNEL 1.1.1                                       |  |
| 15   | ME → UICC | FETCH  |  |
| 16   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 17   | ME → USER | The ME may display channel opening information   |  |
| 18   | ME → USS  | PDP context activation request   |  |
| 19   | USS → ME  | PDP context activation accept  |  |
| 20   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]                   |
| 21   | UICC → ME | PROACTIVE COMMAND<br>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<br>PENDING: OPEN CHANNEL 1.1.1                                       |  |
| 28   | ME → UICC | FETCH  |  |
| 29   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 30   | ME → USER | The ME may display channel opening information   |  |
| 31   | ME → USS  | PDP context activation request   |  |
| 32   | USS → ME  | PDP context activation accept  |  |

|    |           |  |  |
|----|-----------|--|--|
| 33 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]                   |
| 34 | UICC → ME | PROACTIVE COMMAND<br>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<br>PENDING: OPEN CHANNEL 1.1.1                                       |  |
| 41 | ME → UICC | FETCH  |  |
| 42 | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |  |
| 43 | ME → USER | The ME may display channel opening information   |  |
| 44 | ME → USS  | PDP context activation request   |  |
| 45 | USS → ME  | PDP context activation accept  |  |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]                   |
| 47 | UICC → ME | PROACTIVE COMMAND<br>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<br>PENDING: OPEN CHANNEL 1.1.1   | See initial conditions                                    |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 4    | ME → USER | The ME may display channel<br>opening information  |   |
| 5    | ME → USS  | PDP context activation request   |   |
| 6    | USS → ME  | PDP context activation accept  |   |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                          |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.9.1   |   |
| 9    | ME → UICC | FETCH  |   |
| 10   | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.9.1  | [alpha identifier is displayed with strikethrough<br>on]  |
| 11   | ME → USS  | PDP context deactivation request   |   |
| 12   | USS → ME  | PDP context deactivation accept  |   |
| 13   | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.9.1   | [Command performed successfully]                          |
| 14   | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |   |
| 15   | ME → UICC | FETCH  |   |
| 16   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 17   | ME → USER | The ME may display channel<br>opening information  |   |
| 18   | ME → USS  | PDP context activation request   |   |
| 19   | USS → ME  | PDP context activation accept  |   |
| 20   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                          |
| 21   | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.9.2   |   |
| 22   | ME → UICC | FETCH  |   |
| 23   | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.9.2  | [alpha identifier is displayed with strikethrough<br>off] |
| 24   | ME → USS  | PDP context deactivation request   |   |
| 25   | USS → ME  | PDP context deactivation accept  |   |
| 26   | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.9.1   | [Command performed successfully]                          |
| 27   | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |   |
| 28   | ME → UICC | FETCH  |   |
| 29   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 30   | ME → USER | The ME may display channel<br>opening information  |   |
| 31   | ME → USS  | PDP context activation request   |   |
| 32   | USS → ME  | PDP context activation accept  |   |
| 33   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                          |

|    |           |  |   |
|----|-----------|--|---|
| 34 | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.9.1   |   |
| 35 | ME → UICC | FETCH  |   |
| 36 | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.9.1  | [alpha identifier is displayed with strikethrough<br>on]  |
| 37 | ME → USS  | PDP context deactivation request   |   |
| 38 | USS → ME  | PDP context deactivation accept  |   |
| 39 | ME → UICC | TERMINAL RESPONSE CLOSE<br>CHANNEL 2.9.1   | [Command performed successfully]                          |
| 40 | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |   |
| 41 | ME → UICC | FETCH  |   |
| 42 | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 43 | ME → USER | The ME may display channel<br>opening information  |   |
| 44 | ME → USS  | PDP context activation request   |   |
| 45 | USS → ME  | PDP context activation accept  |   |
| 46 | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]                          |
| 47 | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>2.9.3   |   |
| 48 | ME → UICC | FETCH  |   |
| 49 | UICC → ME | PROACTIVE COMMAND: CLOSE<br>CHANNEL 2.9.3  | [alpha identifier is displayed with strikethrough<br>off] |
| 50 | ME → USS  | PDP context deactivation request   |   |
| 51 | USS → ME  | PDP context deactivation accept  |   |
| 52 | ME → UICC | TERMINAL RESPONSE CLOSE<br>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<br>PENDING: OPEN CHANNEL 1.1.1                                       | See initial conditions  |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 4    | ME → USER | The ME may display channel opening information   |   |
| 5    | ME → USS  | PDP context activation request   |   |
| 6    | USS → ME  | PDP context activation accept  |   |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]  |
| 8    | UICC → ME | PROACTIVE COMMAND<br>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<br>PENDING: OPEN CHANNEL 1.1.1                                       |   |
| 15   | ME → UICC | FETCH  |   |
| 16   | UICC → ME | PROACTIVE COMMAND:<br>OPEN CHANNEL 1.1.1   |   |
| 17   | ME → USER | The ME may display channel opening information   |   |
| 18   | ME → USS  | PDP context activation request   |   |
| 19   | USS → ME  | PDP context activation accept  |   |
| 20   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]  |
| 21   | UICC → ME | PROACTIVE COMMAND<br>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.

#### 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. 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]         |
| 2    | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL<br>6.6.1                                    |                                  |
| 3    | ME → UICC | FETCH  |                                  |
| 4    | UICC → ME | PROACTIVE COMMAND:<br>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<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 6.6.1B | [Command performed successfully] |
| 7    | UICC → ME | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>3.1.1                                   |                                  |
| 8    | ME → UICC | FETCH  |                                  |
| 9    | UICC → ME | PROACTIVE COMMAND:<br>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]         |
| 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 ME may display channel opening information   |                                  |
| 6    | ME → E-USS | PDN CONNECTIVITY REQUEST   |                                  |
| 7    | ME → E-USS | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST  |                                  |
| 8    | USS → ME   | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT   |                                  |
| 9    | ME → UICC  | TERMINAL RESPONSE: OPEN CHANNEL 6.1.1  | [Command performed successfully] |
| 10   | UICC → ME  | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.2.1   |                                  |
| 11   | ME → UICC  | FETCH  |                                  |
| 12   | UICC → ME  | PROACTIVE COMMAND: CLOSE CHANNEL 3.2.1   |                                  |
| 13   | ME → E-USS | 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 |                                  |
| 14   | ME → E-USS | DEACTIVATE EPS BEARER CONTEXT REQUEST  |                                  |
| 15   | E-USS → ME | DEACTIVATE EPS BEARER CONTEXT ACCEPT   |                                  |
| 16   | ME → UICC  | TERMINAL RESPONSE CLOSE CHANNEL 3.2.1  | [Command performed successfully] |
| 17   | 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 6.1.1**

Same as TERMINAL RESPONSE: OPEN CHANNEL 6.1.1 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

**27.22.4.28.3.10.5 Test Requirement**

The ME shall operate in the manner defined in expected sequences 3.1 to 3.2.

**27.22.4.29 RECEIVE DATA****27.22.4.29.1 RECEIVE DATA (NORMAL)****27.22.4.29.1.1 Definition and applicability**

See clause 3.2.2.

**27.22.4.29.1.2 Conformance requirements**

The ME shall support the class "e" commands and additionally E-UTRAN for sequence 1.2 as defined in:

- TS 31.111 [15].

**27.22.4.29.1.3 Test purpose**

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or
- TERMINAL RESPONSE (ME currently unable to process command); or
- TERMINAL RESPONSE (Bearer Independent Protocol Error);

to the UICC after the ME receives the RECEIVE DATA 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.

**27.22.4.29.1.4 Method of test****27.22.4.29.1.4.1 Initial conditions**

The ME is connected to the USIM Simulator and the USS. The elementary files are coded as Toolkit default for sequence 1.1.

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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

The following Bearer Parameters used are those defined in the default Test PDP context3, as specified in TS 51.010-1 [12], for test cases using packet services:

Bearer Parameters: 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.

For sequence 1.2 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 : Sames Data Destination Address as defined in 27.22.4.27.6.4.1.

## 27.22.4.29.1.4.2 Procedure

**Expected sequence 1.1 (RECEIVE DATA, already opened channel)**

| Step | Direction | MESSAGE / Action  | Comments                              |
|------|-----------|---|---------------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |                                       |
| 2    | ME → UICC | FETCH   |                                       |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |                                       |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |                                       |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions                |
| 6    | ME → UICC | FETCH   |                                       |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |                                       |
| 8    | ME → USER | The ME may display channel opening information  |                                       |
| 9    | ME → USS  | PDP context activation request  |                                       |
| 10   | USS → ME  | PDP context activation accept   |                                       |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                                | [Command performed successfully]      |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |                                       |
| 13   | ME → UICC | FETCH   |                                       |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |                                       |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]        |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]      |
| 17   | USS → ME  | Transfer of 1000 Bytes of data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |                                       |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1   | (1000 Bytes of data in the ME buffer) |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.1   |                                       |
| 20   | ME → UICC | FETCH   |                                       |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 1.1.1   | 200 Bytes                             |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 1.1.1   |                                       |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.2   |                                       |
| 24   | ME → UICC | FETCH   |                                       |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 1.1.2   | 200 Bytes                             |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 1.1.2   |                                       |
| 27   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.3   |                                       |
| 28   | ME → UICC | FETCH   |                                       |
| 29   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 1.1.3   | 200 Bytes                             |
| 30   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 1.1.3   |                                       |
| 31   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.4   |                                       |
| 32   | ME → UICC | FETCH   |                                       |
| 33   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 1.1.4   | 200 Bytes                             |
| 34   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 1.1.4   |                                       |
| 35   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.5   |                                       |
| 36   | ME → UICC | FETCH   |                                       |
| 37   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 1.1.5   | 200 Bytes                             |
| 38   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 1.1.5   |                                       |

## PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: RFU

Device identities  
 Source device: UICC  
 Destination device: ME

Event list  
 Data available

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 09 |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: RFU

Device identities  
 Source device: ME  
 Destination device: UICC

Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## PROACTIVE COMMAND: 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 |    |    |    |    |    |

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: SEND DATA 1.1.1

## Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 13 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | B6 |
|          | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |    |

## TERMINAL RESPONSE: SEND DATA 1.1.1

## Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

## ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1

## Logically:

## Event list

Event: Data available

## Device identities

Source device: ME  
Destination device: UICC

## Channel status

Channel status: Channel 1 open, link established

## Channel Data Length

Channel data length: FF (more than 255 bytes are available)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 99 | 01 | 09 | 82 | 02 | 82 | 81 | B8 | 02 | 81 |
|          | 00 | B7 | 01 | FF |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: RECEIVE DATA 1.1.1

## Logically:

## Command details

Command number: 1  
Command type: RECEIVE DATA  
Command qualifier: RFU

## Device identities

Source device: UICC  
Destination device: Channel 1

## Channel Data Length

Channel Data Length: 200

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: RECEIVE DATA 1.1.2

## Logically:

## Command details

Command number: 2  
Command type: RECEIVE DATA  
Command qualifier: RFU

## Device identities

Source device: UICC  
Destination device: Channel 1

## Channel Data Length

Channel Data Length: 200

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 02 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: RECEIVE DATA 1.1.3

## Logically:

## Command details

Command number: 3  
Command type: RECEIVE DATA  
Command qualifier: RFU



## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data Length

Channel Data Length: 200

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 03 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: RECEIVE DATA 1.1.4

## Logically:

## Command details

Command number: 4  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data Length

Channel Data Length: 200

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 04 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: RECEIVE DATA 1.1.5

## Logically:

## Command details

Command number: 5  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data Length

Channel Data Length: 200

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 05 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: RECEIVE DATA 1.1.1

## Logically:

## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

TERMINAL RESPONSE: RECEIVE DATA 1.1.2

Logically:

Command details

Command number: 2  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel Data : C8 C9 CA .. FF 00 01 .. 8F (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 02 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | C8 | C9 | CA | .. | FF | 00 | 01 | 02 | .. |
|          | 8F | B7 | 01 | FF |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: RECEIVE DATA 1.1.3

Logically:

Command details

Command number: 3  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel Data : 90 91 .. FF 00 01 – 57 (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 03 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 90 | 91 | 92 | .. | FF | 00 | 01 | 02 | .. |
|          | 57 | B7 | 01 | FF |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: RECEIVE DATA 1.1.4

Logically:

Command details

Command number: 4  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data : 58 59 .. FF 00 01 .. 1F (200 Bytes of data)  
 Channel data length: C8

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 04 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 58 | 59 | 5A | .. | FF | 00 | 01 | 02 | .. |
|          | 1F | B7 | 01 | C8 |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: RECEIVE DATA 1.1.5

## Logically:

## Command details

Command number: 5  
 Command type: RECEIVE DATA  
 Command qualifier: RFUDevice identities  
 Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data: 20 21 .. E7 (200 Bytes of data)  
 Channel data length: 00

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 05 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 20 | 21 | 22 | .. | E7 | B7 | 01 | 00 |    |

**Expected sequence 1.2 (RECEIVE DATA, already opened channel, E-UTRAN, APN different from default)**

| Step | Direction  | MESSAGE / Action  | Comments   |
|------|------------|---|--|
| 1    | UICC → ME  | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |  |
| 2    | ME → UICC  | FETCH   |  |
| 3    | UICC → ME  | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |  |
| 4    | ME → UICC  | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |  |
| 5    | UICC → ME  | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.2.1   | See initial conditions   |
| 6    | ME → UICC  | FETCH   |  |
| 7    | UICC → ME  | PROACTIVE COMMAND: OPEN CHANNEL 1.2.1   |  |
| 8    | ME → USER  | The ME should not display channel opening information   |  |
| 9    | ME → E-USS | PDN CONNECTIVITY REQUEST  | [The PDN CONNECTIVITY REQUEST shall contain the APN "Test12.rs"]                       |
| 10   | E-USS → ME | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST   | [The E-UTRAN parameters are used]  |
| 11   | ME → E-USS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT  |  |
| 12   | ME → UICC  | TERMINAL RESPONSE: OPEN CHANNEL 1.2.1   |  |
| 13   | UICC → ME  | PROACTIVE COMMAND PENDING: SEND DATA 1.2.1  |  |
| 14   | ME → UICC  | FETCH   |  |
| 15   | UICC → ME  | PROACTIVE COMMAND: SEND DATA (immediate) 1.2.1  |  |
| 16   | ME → E-USS | Transfer of 8 Bytes of data to the E-USS through channel 1  | [To retrieve ME's port number at the Access Point defined in the Open Channel command] |
| 17   | ME → UICC  | TERMINAL RESPONSE: SEND DATA (immediate) 1.2.1  | [Command performed successfully]   |
| 18   | E-USS → ME | Transfer of 1000 Bytes of data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 | [Sent from the Access Point different to the one of the default EPS bearer]            |
| 19   | ME → UICC  | ENVELOPE: EVENT DOWNLOAD - Data available 1.2.1   | (1000 Bytes of data in the ME buffer)  |
| 20   | UICC → ME  | PROACTIVE COMMAND PENDING: RECEIVE DATA 1.2.1   |  |
| 21   | ME → UICC  | FETCH   |  |
| 22   | UICC → ME  | PROACTIVE COMMAND: RECEIVE DATA 1.2.1   | 200 Bytes  |
| 23   | ME → UICC  | TERMINAL RESPONSE: RECEIVE DATA 1.2.1   |  |
| 24   | UICC → ME  | PROACTIVE COMMAND PENDING: RECEIVE DATA 1.2.2   |  |
| 25   | ME → UICC  | FETCH   |  |
| 26   | UICC → ME  | PROACTIVE COMMAND: RECEIVE DATA 1.2.2   | 200 Bytes  |
| 27   | ME → UICC  | TERMINAL RESPONSE: RECEIVE DATA 1.2.2   |  |
| 28   | UICC → ME  | PROACTIVE COMMAND PENDING: RECEIVE DATA 1.2.3   |  |
| 29   | ME → UICC  | FETCH   |  |
| 30   | UICC → ME  | PROACTIVE COMMAND: RECEIVE DATA 1.2.3   | 200 Bytes  |
| 31   | ME → UICC  | TERMINAL RESPONSE: RECEIVE DATA 1.2.3   |  |
| 32   | UICC → ME  | PROACTIVE COMMAND PENDING: RECEIVE DATA 1.2.4   |  |
| 33   | ME → UICC  | FETCH   |  |
| 34   | UICC → ME  | PROACTIVE COMMAND: RECEIVE DATA 1.2.4   | 200 Bytes  |
| 35   | ME → UICC  | TERMINAL RESPONSE: RECEIVE DATA 1.2.4   |  |
| 36   | UICC → ME  | PROACTIVE COMMAND PENDING: RECEIVE DATA 1.2.5   |  |
| 37   | ME → UICC  | FETCH   |  |
| 38   | UICC → ME  | PROACTIVE COMMAND: RECEIVE DATA 1.2.5   | 200 Bytes  |
| 39   | ME → UICC  | TERMINAL RESPONSE: RECEIVE DATA 1.2.5   |  |

|    |           |  |                                  |
|----|-----------|--|----------------------------------|
| 40 | UICC → ME | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.2.1 |                                  |
| 41 | ME → UICC | FETCH  |                                  |
| 42 | UICC → ME | PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1         |                                  |
| 43 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 1.2.1          | [Command performed successfully] |

#### PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Same as PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 in expected sequence 1.1

#### TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Same as TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1 in expected sequence 1.1

#### PROACTIVE COMMAND: OPEN CHANNEL 1.2.1

Logically:

##### Command details

Command number: 1  
 Command type: OPEN CHANNEL  
 Command qualifier: immediate link establishment

##### Device identities

Source device: UICC  
 Destination device: ME

Alpha Identifier: empty

##### 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 | 44 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 85 |
|          | 00 | 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 |    |    |

#### TERMINAL RESPONSE: OPEN CHANNEL 1.2.1

Logically:

##### Command details

Command number: 1

Command type: OPEN CHANNEL  
 Command qualifier: immediate link establishment

Device identities  
 Source device: ME  
 Destination device: 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 |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 1.2.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities  
 Source device: UICC  
 Destination device: Channel 1

Channel Data  
 Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 13 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | B6 |
|          | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |    |

TERMINAL RESPONSE: SEND DATA 1.2.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities  
 Source device: ME  
 Destination device: UICC

Result  
 General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

ENVELOPE: EVENT DOWNLOAD - Data available 1.2.1

Logically:

Event list

Event: Data available

Device identities

Source device: ME

Destination device: UICC

Channel status

Channel status: Channel 1 open, link established

Channel Data Length

Channel data length: FF (more than 255 bytes are available)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 99 | 01 | 09 | 82 | 02 | 82 | 81 | B8 | 02 | 81 |
|          | 00 | B7 | 01 | FF |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: RECEIVE DATA 1.2.1

Logically:

Command details

Command number: 1

Command type: RECEIVE DATA

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: RECEIVE DATA 1.2.2

Logically:

Command details

Command number: 2

Command type: RECEIVE DATA

Command qualifier: RFU

Device identities

Source device: UICC

Destination device: Channel 1

Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 02 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: RECEIVE DATA 1.2.3

Logically:

## Command details

Command number: 3  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 03 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: RECEIVE DATA 1.2.4

Logically:

## Command details

Command number: 4  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 04 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: RECEIVE DATA 1.2.5

Logically:

## Command details

Command number: 5  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 05 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: RECEIVE DATA 1.2.1

Logically:



## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

## TERMINAL RESPONSE: RECEIVE DATA 1.2.2

## Logically:

## Command details

Command number: 2  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data : C8 C9 CA .. FF 00 01 .. 8F (200 Bytes of data)  
 Channel data length: FF

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 02 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | C8 | C9 | CA | .. | FF | 00 | 01 | 02 | .. |
|          | 8F | B7 | 01 | FF |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: RECEIVE DATA 1.2.3

## Logically:

## Command details

Command number: 3  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data : 90 91 .. FF 00 01 – 57 (200 Bytes of data)  
 Channel data length: FF

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 03 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 90 | 91 | 92 | .. | FF | 00 | 01 | 02 | .. |
|          | 57 | B7 | 01 | FF |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: RECEIVE DATA 1.2.4

Logically:

## Command details

Command number: 4  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data : 58 59 .. FF 00 01 .. 1F (200 Bytes of data)  
 Channel data length: C8

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 04 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 58 | 59 | 5A | .. | FF | 00 | 01 | 02 | .. |
|          | 1F | B7 | 01 | C8 |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: RECEIVE DATA 1.2.5

Logically:

## Command details

Command number: 5  
 Command type: RECEIVE DATA  
 Command qualifier: RFU  
 Device identities  
 Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data: 20 21 .. E7 (200 Bytes of data)  
 Channel data length: 00

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 05 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 20 | 21 | 22 | .. | E7 | B7 | 01 | 00 |    |

## 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 1

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 81 | 21 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

## 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: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 41 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

### 27.22.4.29.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1 to 1.2.

### 27.22.4.29.2 RECEIVE DATA (support of Text Attribute)

#### 27.22.4.29.2.1 RECEIVE DATA (support of Text Attribute – Left Alignment)

##### 27.22.4.29.2.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.29.2.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

##### 27.22.4.29.2.1.3 Test purpose

To verify that the ME shall display the alpha identifier according to the left alignment text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

##### 27.22.4.29.2.1.4 Method of test

###### 27.22.4.29.2.1.4.1 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.

#### 27.22.4.29.2.1.4.2 Procedure

#### Expected sequence 2.1 (RECEIVE DATA, with Text Attribute – Left Alignment)

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |  |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |  |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions   |
| 6    | ME → UICC | FETCH   |  |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |  |
| 8    | ME → USER | The ME may display channel opening information  |  |
| 9    | ME → USS  | PDP context activation request  |  |
| 10   | USS → ME  | PDP context activation accept   |  |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                            | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |  |
| 13   | ME → UICC | FETCH   |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |  |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]   |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]   |
| 17   | USS → ME  | Transfer of 400 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |  |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1 ENVELOPE (Data Available)   | (400 Bytes of data in the ME buffer)   |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.1.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.1.1   | 200 Bytes with alpha identifier is displayed with left alignment   |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.1.1   |  |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.1.2   |  |
| 24   | ME → UICC | FETCH   |  |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.1.2   | 200 Bytes with alpha identifier shall be formatted without left alignment.<br>Remark: If left alignment is the ME's default alignment as declared in table A.2/21, no alignment change will take place |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.1.1   |  |

## PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

## TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

## ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Logically:

Event list  
 Event: Data available  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Channel status  
 Channel status: Channel 1 open, link established  
 Channel Data Length  
 Channel data length: FF (more than 255 bytes are available)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 99 | 01 | 09 | 82 | 02 | 82 | 81 | B8 | 02 | 81 |
|          | 00 | B7 | 01 | FF |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: RECEIVE DATA 2.1.1

Logically:

Command details  
 Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU  
 Device identities  
 Source device: UICC  
 Destination device: Channel 1  
 Alpha Identifier "Receive Data 1"  
 Channel Data Length  
 Channel Data Length: 200  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 31 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 00 | B4 |

## PROACTIVE COMMAND: RECEIVE DATA 2.1.2

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU  
 Device identities  
   Source device: UICC  
   Destination device: Channel 1  
 Alpha Identifier "Receive Data 2"  
 Channel Data Length  
   Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 32 | B7 | 01 | C8 |    |    |    |    |    |    |

TERMINAL RESPONSE: RECEIVE DATA 2.1.1

Logically:

Command details  
   Command number: 1  
   Command type: RECEIVE DATA  
   Command qualifier: RFU  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Result  
   General Result: Command performed successfully  
   Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
   Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

#### 27.22.4.29.2.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1.

#### 27.22.4.29.2.2 RECEIVE DATA (support of Text Attribute – Center Alignment)

##### 27.22.4.29.2.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.29.2.2.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

##### 27.22.4.29.2.2.3 Test purpose

To verify that the ME shall display the alpha identifier according to the center alignment text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

27.22.4.29.2.2.4 Method of test

27.22.4.29.2.2.4.1 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.

## 27.22.4.29.2.2.4.2 Procedure

**Expected sequence 2.2 (RECEIVE DATA, with Text Attribute – Center Alignment)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |  |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |  |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions   |
| 6    | ME → UICC | FETCH   |  |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |  |
| 8    | ME → USER | The ME may display channel opening information  |  |
| 9    | ME → USS  | PDP context activation request  |  |
| 10   | USS → ME  | PDP context activation accept   |  |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                            | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |  |
| 13   | ME → UICC | FETCH   |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |  |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]   |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]   |
| 17   | USS → ME  | Transfer of 400 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |  |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1   | (400 Bytes of data in the ME buffer)   |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.2.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.2.1   | 200 Bytes with alpha identifier is displayed with center alignment   |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.2.1   |  |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.2.2   |  |
| 24   | ME → UICC | FETCH   |  |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.2.2   | 200 Bytes with alpha identifier shall be formatted without center alignment.<br>Remark: If center alignment is the ME's default alignment as declared in table A.2/21, no alignment change will take place |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.2.1   |  |

**PROACTIVE COMMAND: SEND DATA 1.1.1**

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

**TERMINAL RESPONSE: SEND DATA 1.1.1**

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.



ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

PROACTIVE COMMAND: RECEIVE DATA 2.2.1

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 1"

Channel Data Length

Channel Data Length: 200

Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Center Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 31 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 01 | B4 |

PROACTIVE COMMAND: RECEIVE DATA 2.2.2

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 2"

Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 32 | B7 | 01 | C8 |    |    |    |    |    |    |

TERMINAL RESPONSE: RECEIVE DATA 2.2.1

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA

Command qualifier: RFU  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

#### 27.22.4.29.2.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.2.

#### 27.22.4.29.2.3 RECEIVE DATA (support of Text Attribute – Right Alignment)

##### 27.22.4.29.2.3.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.29.2.3.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

##### 27.22.4.29.2.3.3 Test purpose

To verify that the ME shall display the alpha identifier according to the right alignment text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

##### 27.22.4.29.2.3.4 Method of test

###### 27.22.4.29.2.3.4.1 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.

#### 27.22.4.29.2.3.4.2 Procedure

#### Expected sequence 2.3 (RECEIVE DATA, with Text Attribute – Right Alignment)

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |  |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |  |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions   |
| 6    | ME → UICC | FETCH   |  |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |  |
| 8    | ME → USER | The ME may display channel opening information  |  |
| 9    | ME → USS  | PDP context activation request  |  |
| 10   | USS → ME  | PDP context activation accept   |  |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                            | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |  |
| 13   | ME → UICC | FETCH   |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |  |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]   |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]   |
| 17   | USS → ME  | Transfer of 400 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |  |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1   | (400 Bytes of data in the ME buffer)   |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.3.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.3.1   | 200 Bytes with alpha identifier is displayed with right alignment  |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.3.1   |  |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.3.2   |  |
| 24   | ME → UICC | FETCH   |  |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.3.2   | 200 Bytes with alpha identifier shall be formatted without right alignment.<br>Remark: If right alignment is the ME's default alignment as declared in table A.2/21, no alignment change will take place |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.3.1   |  |

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

## TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

## ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

## PROACTIVE COMMAND: RECEIVE DATA 2.3.1

Logically:

## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 1"

## Channel Data Length

Channel Data Length: 200

## Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Right Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 31 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 02 | B4 |

## PROACTIVE COMMAND: RECEIVE DATA 2.3.2

Logically:

## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 2"

## Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 32 | B7 | 01 | C8 |    |    |    |    |    |    |

## TERMINAL RESPONSE: RECEIVE DATA 2.3.1

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

### 27.22.4.29.2.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.3.

### 27.22.4.29.2.4 RECEIVE DATA (support of Text Attribute – Large Font Size)

#### 27.22.4.29.2.4.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.29.2.4.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

#### 27.22.4.29.2.4.3 Test purpose

To verify that the ME shall display the alpha identifier according to the large font size text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

#### 27.22.4.29.2.4.4 Method of test

##### 27.22.4.29.2.4.4.1 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.

## 27.22.4.29.2.4.4.2 Procedure

**Expected sequence 2.4 (RECEIVE DATA, with Text Attribute – Large Font Size)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |  |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |  |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions   |
| 6    | ME → UICC | FETCH   |  |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |  |
| 8    | ME → USER | The ME may display channel opening information  |  |
| 9    | ME → USS  | PDP context activation request  |  |
| 10   | USS → ME  | PDP context activation accept   |  |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                            | [Command performed successfully]                                   |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |  |
| 13   | ME → UICC | FETCH   |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |  |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]                                     |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]                                   |
| 17   | USS → ME  | Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |  |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1   | (800 Bytes of data in the ME buffer)                               |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.4.1   | 200 Bytes with alpha identifier is displayed with large font size  |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.4.1   |  |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.2   |  |
| 24   | ME → UICC | FETCH   |  |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.4.2   | 200 Bytes with alpha identifier is displayed with normal font size |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.4.1   |  |
| 27   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.1   |  |
| 28   | ME → UICC | FETCH   |  |
| 29   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.4.1   | 200 Bytes with alpha identifier is displayed with large font size  |
| 30   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.4.1   |  |
| 31   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.3   |  |
| 32   | ME → UICC | FETCH   |  |
| 33   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.4.3   | 200 Bytes with alpha identifier is displayed with normal font size |
| 34   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.4.1   |  |

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

#### PROACTIVE COMMAND: RECEIVE DATA 2.4.1

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 1"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Large Font, Bold On, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 31 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 04 | B4 |

#### PROACTIVE COMMAND: RECEIVE DATA 2.4.2

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 2"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background



Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 32 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 00 | B4 |

#### PROACTIVE COMMAND: RECEIVE DATA 2.4.3

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 3"

##### Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 33 | B7 | 01 | C8 |    |    |    |    |    |    |

#### TERMINAL RESPONSE: RECEIVE DATA 2.4.1

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: ME  
 Destination device: UICC

##### Result

General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

#### 27.22.4.29.2.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.4.

#### 27.22.4.29.2.5 RECEIVE DATA (support of Text Attribute – Small Font Size)

##### 27.22.4.29.2.5.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.29.2.5.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

#### 27.22.4.29.2.5.3 Test purpose

To verify that the ME shall display the alpha identifier according to small font size the text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

#### 27.22.4.29.2.5.4 Method of test

##### 27.22.4.29.2.5.4.1 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.         |

## 27.22.4.29.2.5.4.2 Procedure

**Expected sequence 2.5 (RECEIVE DATA, with Text Attribute – Small Font Size)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |  |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |  |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions   |
| 6    | ME → UICC | FETCH   |  |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |  |
| 8    | ME → USER | The ME may display channel opening information  |  |
| 9    | ME → USS  | PDP context activation request  |  |
| 10   | USS → ME  | PDP context activation accept   |  |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                            | [Command performed successfully]                                   |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |  |
| 13   | ME → UICC | FETCH   |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |  |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]                                     |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]                                   |
| 17   | USS → ME  | Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |  |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1   | (800 Bytes of data in the ME buffer)                               |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.5.1   | 200 Bytes with alpha identifier is displayed with small font size  |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.5.1   |  |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.2   |  |
| 24   | ME → UICC | FETCH   |  |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.5.2   | 200 Bytes with alpha identifier is displayed with normal font size |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.5.1   |  |
| 27   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.1   |  |
| 28   | ME → UICC | FETCH   |  |
| 29   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.5.1   | 200 Bytes with alpha identifier is displayed with small font size  |
| 30   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.5.1   |  |
| 31   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.3   |  |
| 32   | ME → UICC | FETCH   |  |
| 33   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.5.3   | 200 Bytes with alpha identifier is displayed with normal font size |
| 34   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.5.1   |  |

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

#### PROACTIVE COMMAND: RECEIVE DATA 2.5.1

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 1"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Small Font, Bold On, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 31 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 08 | B4 |

#### PROACTIVE COMMAND: RECEIVE DATA 2.5.2

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 2"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 32 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 00 | B4 |

PROACTIVE COMMAND: RECEIVE DATA 2.5.3

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 3"

Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 33 | B7 | 01 | C8 |    |    |    |    |    |    |

TERMINAL RESPONSE: RECEIVE DATA 2.5.1

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

#### 27.22.4.29.2.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.5.

#### 27.22.4.29.2.6 RECEIVE DATA (support of Text Attribute – Bold On)

##### 27.22.4.29.2.6.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.29.2.6.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

#### 27.22.4.29.2.6.3 Test purpose

To verify that the ME shall display the alpha identifier according to the bold text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

#### 27.22.4.29.2.6.4 Method of test

##### 27.22.4.29.2.6.4.1 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.         |

## 27.22.4.29.2.6.4.2 Procedure

**Expected sequence 2.6 (RECEIVE DATA, with Text Attribute – Bold On)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |  |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |  |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions                                     |
| 6    | ME → UICC | FETCH   |  |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |  |
| 8    | ME → USER | The ME may display channel opening information  |  |
| 9    | ME → USS  | PDP context activation request  |  |
| 10   | USS → ME  | PDP context activation accept   |  |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                            | [Command performed successfully]                           |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |  |
| 13   | ME → UICC | FETCH   |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |  |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]                             |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]                           |
| 17   | USS → ME  | Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |  |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1   | (800 Bytes of data in the ME buffer)                       |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.6.1   | 200 Bytes with alpha identifier is displayed with bold on  |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.6.1   |  |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.2   |  |
| 24   | ME → UICC | FETCH   |  |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.6.2   | 200 Bytes with alpha identifier is displayed with bold off |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.6.1   |  |
| 27   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.1   |  |
| 28   | ME → UICC | FETCH   |  |
| 29   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.6.1   | 200 Bytes with alpha identifier is displayed with bold on  |
| 30   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.6.1   |  |
| 31   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.6.3   |  |
| 32   | ME → UICC | FETCH   |  |
| 33   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.6.3   | 200 Bytes with alpha identifier is displayed with bold off |
| 34   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.6.1   |  |

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

#### PROACTIVE COMMAND: RECEIVE DATA 2.6.1

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 1"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold On, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 31 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 10 | B4 |

#### PROACTIVE COMMAND: RECEIVE DATA 2.6.2

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 2"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background



Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 32 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 00 | B4 |

## PROACTIVE COMMAND: RECEIVE DATA 2.6.3

Logically:

## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 3"

## Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 33 | B7 | 01 | C8 |    |    |    |    |    |    |

## TERMINAL RESPONSE: RECEIVE DATA 2.6.1

Logically:

## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

## 27.22.4.29.2.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.6.

## 27.22.4.29.2.7 RECEIVE DATA (support of Text Attribute – Italic On)

## 27.22.4.29.2.7.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.29.2.7.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

#### 27.22.4.29.2.7.3 Test purpose

To verify that the ME shall display the alpha identifier according to the italic text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

#### 27.22.4.29.2.7.4 Method of test

##### 27.22.4.29.2.7.4.1 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.         |

## 27.22.4.29.2.7.4.2 Procedure

**Expected sequence 2.7 (RECEIVE DATA, with Text Attribute – Italic On)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |  |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |  |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |  |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions                                       |
| 6    | ME → UICC | FETCH   |  |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |  |
| 8    | ME → USER | The ME may display channel opening information  |  |
| 9    | ME → USS  | PDP context activation request  |  |
| 10   | USS → ME  | PDP context activation accept   |  |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                            | [Command performed successfully]                             |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |  |
| 13   | ME → UICC | FETCH   |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |  |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]                               |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]                             |
| 17   | USS → ME  | Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |  |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1ENVELOPE   | (800 Bytes of data in the ME buffer)                         |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.1   |  |
| 20   | ME → UICC | FETCH   |  |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.7.1   | 200 Bytes with alpha identifier is displayed with italic on  |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.7.1   |  |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.2   |  |
| 24   | ME → UICC | FETCH   |  |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.7.2   | 200 Bytes with alpha identifier is displayed with italic off |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.7.1   |  |
| 27   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.1   |  |
| 28   | ME → UICC | FETCH   |  |
| 29   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.7.1   | 200 Bytes with alpha identifier is displayed with italic on  |
| 30   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.7.1   |  |
| 31   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.3   |  |
| 32   | ME → UICC | FETCH   |  |
| 33   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.7.3   | 200 Bytes with alpha identifier is displayed with italic off |
| 34   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.7.1   |  |

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

#### PROACTIVE COMMAND: RECEIVE DATA 2.7.1

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 1"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic On, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 31 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 20 | B4 |

#### PROACTIVE COMMAND: RECEIVE DATA 2.7.2

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 2"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 32 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 00 | B4 |

PROACTIVE COMMAND: RECEIVE DATA 2.7.3

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 3"

Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 33 | B7 | 01 | C8 |    |    |    |    |    |    |

TERMINAL RESPONSE: RECEIVE DATA 2.7.1

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

#### 27.22.4.29.2.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.7.

#### 27.22.4.29.2.8 RECEIVE DATA (support of Text Attribute – Underline On)

##### 27.22.4.29.2.8.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.29.2.8.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

#### 27.22.4.29.2.8.3 Test purpose

To verify that the ME shall display the alpha identifier according to the underline text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

#### 27.22.4.29.2.8.4 Method of test

##### 27.22.4.29.2.8.4.1 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.         |

## 27.22.4.29.2.8.4.2 Procedure

**Expected sequence 2.8 (RECEIVE DATA, with Text Attribute – Underline On)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |   |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |   |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions  |
| 6    | ME → UICC | FETCH   |   |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |   |
| 8    | ME → USER | The ME may display channel opening information  |   |
| 9    | ME → USS  | PDP context activation request  |   |
| 10   | USS → ME  | PDP context activation accept   |   |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                            | [Command performed successfully]                                |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |   |
| 13   | ME → UICC | FETCH   |   |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |   |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]                                  |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]                                |
| 17   | USS → ME  | Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |   |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1   | (800 kBytes of data in the ME buffer)                           |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.1   |   |
| 20   | ME → UICC | FETCH   |   |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.8.1   | 200 Bytes with alpha identifier is displayed with underline on  |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.8.1   |   |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.2   |   |
| 24   | ME → UICC | FETCH   |   |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.8.2   | 200 Bytes with alpha identifier is displayed with underline off |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.8.1   |   |
| 27   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.1   |   |
| 28   | ME → UICC | FETCH   |   |
| 29   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.8.1   | 200 Bytes with alpha identifier is displayed with underline on  |
| 30   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.8.1   |   |
| 31   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.3   |   |
| 32   | ME → UICC | FETCH   |   |
| 33   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.8.3   | 200 Bytes with alpha identifier is displayed with underline off |
| 34   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.8.1   |   |

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

#### PROACTIVE COMMAND: RECEIVE DATA 2.8.1

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 1"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline On, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 31 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 40 | B4 |

#### PROACTIVE COMMAND: RECEIVE DATA 2.8.2

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 2"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background



Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 32 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 00 | B4 |

PROACTIVE COMMAND: RECEIVE DATA 2.8.3

Logically:

## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 3"

## Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 33 | B7 | 01 | C8 |    |    |    |    |    |    |

TERMINAL RESPONSE: RECEIVE DATA 2.8.1

Logically:

## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

## 27.22.4.29.2.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.8.

## 27.22.4.29.2.9 RECEIVE DATA (support of Text Attribute – Strikethrough On)

## 27.22.4.29.2.9.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.29.2.9.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

#### 27.22.4.29.2.9.3 Test purpose

To verify that the ME shall display the alpha identifier according to the strikethrough text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

#### 27.22.4.29.2.9.4 Method of test

##### 27.22.4.29.2.9.4.1 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.         |

## 27.22.4.29.2.9.4.2 Procedure

**Expected sequence 2.9 (RECEIVE DATA, with Text Attribute – Strikethrough On)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |   |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |   |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions  |
| 6    | ME → UICC | FETCH   |   |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |   |
| 8    | ME → USER | The ME may display channel opening information  |   |
| 9    | ME → USS  | PDP context activation request  |   |
| 10   | USS → ME  | PDP context activation accept   |   |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                            | [Command performed successfully]                                    |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |   |
| 13   | ME → UICC | FETCH   |   |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |   |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]                                      |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]                                    |
| 17   | USS → ME  | Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |   |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1   | (800 Bytes of data in the ME buffer)                                |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.1   |   |
| 20   | ME → UICC | FETCH   |   |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.9.1   | 200 Bytes with alpha identifier is displayed with strikethrough on  |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.9.1   |   |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.2   |   |
| 24   | ME → UICC | FETCH   |   |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.9.2   | 200 Bytes with alpha identifier is displayed with strikethrough off |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.9.1   |   |
| 27   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.1   |   |
| 28   | ME → UICC | FETCH   |   |
| 29   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.9.1   | 200 Bytes with alpha identifier is displayed with strikethrough on  |
| 30   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.9.1   |   |
| 31   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.3   |   |
| 32   | ME → UICC | FETCH   |   |
| 33   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.9.3   | 200 Bytes with alpha identifier is displayed with strikethrough off |
| 34   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.9.1   |   |

PROACTIVE COMMAND: SEND DATA 1.1.1

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### TERMINAL RESPONSE: SEND DATA 1.1.1

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

#### ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

#### PROACTIVE COMMAND: RECEIVE DATA 2.9.1

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 1"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough On

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 31 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 80 | B4 |

#### PROACTIVE COMMAND: RECEIVE DATA 2.9.2

Logically:

##### Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 2"

##### Channel Data Length

Channel Data Length: 200

##### Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off, Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 32 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 00 | B4 |

PROACTIVE COMMAND: RECEIVE DATA 2.9.3

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 3"

Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 33 | B7 | 01 | C8 |    |    |    |    |    |    |

TERMINAL RESPONSE: RECEIVE DATA 2.9.1

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

#### 27.22.4.29.2.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.9.

#### 27.22.4.29.2.10 RECEIVE DATA (support of Text Attribute – Foreground and Background Colour)

##### 27.22.4.29.2.10.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.29.2.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

#### 27.22.4.29.2.10.3 Test purpose

To verify that the ME shall display the alpha identifier according to the foreground and background colour text attribute configuration in the RECEIVE DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

#### 27.22.4.29.2.10.4 Method of test

##### 27.22.4.29.2.10.4.1 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.         |

## 27.22.4.29.2.10.4.2 Procedure

**Expected sequence 2.10 (RECEIVE DATA, with Text Attribute – Foreground and Background Colour)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  |   |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  |   |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1   | See initial conditions  |
| 6    | ME → UICC | FETCH   |   |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1   |   |
| 8    | ME → USER | The ME may display channel opening information  |   |
| 9    | ME → USS  | PDP context activation request  |   |
| 10   | USS → ME  | PDP context activation accept   |   |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B                            | [Command performed successfully]  |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.1.1  |   |
| 13   | ME → UICC | FETCH   |   |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1  |   |
| 15   | ME → USS  | Transfer of 8 Bytes of data to the USS through channel 1  | [To retrieve ME's port number]  |
| 16   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1  | [Command performed successfully]  |
| 17   | USS → ME  | Transfer of 400 Bytes data to the ME through channel 1 using the ME's port number, which was retrieved in step 15 |   |
| 18   | ME → UICC | ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1   | (400 Bytes of data in the ME buffer)  |
| 19   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.10.1  |   |
| 20   | ME → UICC | FETCH   |   |
| 21   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.10.1  | 200 Bytes with alpha identifier is displayed with foreground and background colour              |
| 22   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.10.1  |   |
| 23   | UICC → ME | PROACTIVE COMMAND PENDING: RECEIVE DATA 2.10.2  |   |
| 24   | ME → UICC | FETCH   |   |
| 25   | UICC → ME | PROACTIVE COMMAND: RECEIVE DATA 2.10.2  | 200 Bytes with alpha identifier is displayed with ME's default foreground and background colour |
| 26   | ME → UICC | TERMINAL RESPONSE: RECEIVE DATA 2.10.1  |   |

**PROACTIVE COMMAND: SEND DATA 1.1.1**

Same as PROACTIVE COMMAND: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

**TERMINAL RESPONSE: SEND DATA 1.1.1**

Same as TERMINAL RESPONSE: SEND DATA 1.1.1 in clause 27.22.4.29.1.4.2.

## ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1

Same as cl. 27.22.4.29.2.1.4.2, ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1.

## PROACTIVE COMMAND: RECEIVE DATA 2.10.1

Logically:

## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 1"

## Channel Data Length

Channel Data Length: 200

## Text Attribute

Formatting position: 0  
 Formatting length: 14  
 Formatting mode: Left Alignment, Normal Font, Bold Off, Italic Off, Underline Off,  
 Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 22 | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 31 | B7 | 01 | C8 | D0 | 04 | 00 | 0E | 00 | B4 |

## PROACTIVE COMMAND: RECEIVE DATA 2.10.2

Logically:

## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

## Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Receive Data 2"

## Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 1C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | 85 |
|          | 0E | 52 | 65 | 63 | 65 | 69 | 76 | 65 | 20 | 44 | 61 | 74 |
|          | 61 | 20 | 32 | B7 | 01 | C8 |    |    |    |    |    |    |

## TERMINAL RESPONSE: RECEIVE DATA 2.10.1

Logically:

## Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU



## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)  
 Channel data length: FF

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | .. | C7 | B7 | 01 | FF |    |

## 27.22.4.29.2.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.10.

## 27.22.4.30 SEND DATA

## 27.22.4.30.1 SEND DATA (normal)

## 27.22.4.30.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.30.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

## 27.22.4.30.1.3 Test purpose

To verify that the ME shall send a:

- TERMINAL RESPONSE (Command Performed Successfully); or
- TERMINAL RESPONSE (ME currently unable to process command); or
- TERMINAL RESPONSE (Bearer Independent Protocol Error);
- TERMINAL RESPONSE (Proactive USIM session terminated by the user);

to the UICC after the ME receives the SEND DATA 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.

## 27.22.4.30.1.4 Method of test

## 27.22.4.30.1.4.1 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.

#### 27.22.4.30.1.4.2 Procedure

##### Expected sequence 1.1 (SEND DATA, immediate mode)

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   | See initial conditions           |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: OPEN<br>CHANNEL 1.1.1   |                                  |
| 4    | ME → USER | The ME may display channel<br>opening information  |                                  |
| 5    | ME → USS  | PDP context activation request   |                                  |
| 6    | USS → ME  | PDP context activation accept  |                                  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully] |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 1.1.1  |                                  |
| 9    | ME → UICC | FETCH  |                                  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA (immediate) 1.1.1  |                                  |
| 11   | ME → USS  | Transfer of 8 Bytes of data to the<br>USS through channel 1                                  |                                  |
| 12   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 1.1.1  | [Command performed successfully] |

#### PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

##### Command details

Command number: 1  
Command type: OPEN CHANNEL  
Command qualifier: immediate link establishment

##### Device identities

Source device: 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: SEND DATA 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately  
 Device identities  
 Source device: UICC  
 Destination device: Channel 1  
 Channel Data  
 Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 13 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | B6 |
|          | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |    |

TERMINAL RESPONSE: SEND DATA 1.1.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

**Expected sequence 1.2 (SEND DATA, Store mode)**

| Step | Direction | MESSAGE / Action   | Comments                                 |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>OPEN CHANNEL 1.1.1   | See initial conditions                   |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: OPEN<br>CHANNEL 1.1.1   |  |
| 4    | ME → USER | The ME may display channel opening<br>information  |  |
| 5    | ME → USS  | PDP context activation request   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]         |
| 8    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SEND DATA 1.2.1  |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA (store mode) 1.2.1   | Send 500 Bytes of data (200 + 200 + 100) |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (store mode) 1.2.1   | [Command performed successfully]         |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SEND DATA 1.2.2  |  |
| 13   | ME → UICC | FETCH  |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA (store mode) 1.2.2   | [200 Bytes]                              |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (store mode) 1.2.2   | [Command performed successfully]         |
| 16   | UICC → ME | PROACTIVE COMMAND PENDING:<br>SEND DATA 1.2.3  |  |
| 17   | ME → UICC | FETCH  |  |
| 18   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA (Immediate mode) 1.2.3                                       | [100 Bytes]                              |
| 19   | ME → USS  | Transfer of 500 Bytes of data to the<br>USS through channel 1                                |  |
| 20   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (Immediate mode) 1.2.3                                       | [Command performed successfully]         |

**PROACTIVE COMMAND: SEND DATA 1.2.1**

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data

Channel Data : 00 01 .. C7 (200 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | D4 | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 81 | 21 |
|          | B6 | 81 | C8 | 00 | 01 | .. | C7 |    |    |    |    |    |

**TERMINAL RESPONSE: SEND DATA 1.2.1**

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 1.2.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data

Channel Data : C8 C9 .. FF 00 01 .. 8F (200 Bytes of data)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | D4 | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 81 | 21 |
|          | B6 | 81 | C8 | C8 | C9 | .. | FF | 00 | 01 | .. | 8F |    |

## TERMINAL RESPONSE: SEND DATA 1.2.2

## Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 1.2.3

## Logically:

## Command details

Command number: 1

Command type: SEND DATA  
 Command qualifier: Immediate mode  
 Device identities  
 Source device: UICC  
 Destination device: Channel 1  
 Channel Data  
 Channel Data : 90 91 .. F3 (100 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 6F | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | B6 |
|          | 64 | 90 | 91 | .. | F3 |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SEND DATA 1.2.3

Logically:

Command details  
 Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Immediate mode  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

**Expected sequence 1.3 (SEND DATA, Store mode, Tx buffer fully used)**

| Step | Direction | MESSAGE / Action   | Comments                                       |
|------|-----------|--|--|
| 1    | 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   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]               |
| 8    | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.1   |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1  | Send 1000 Bytes of data by packet of 200 Bytes |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1  | [Command performed successfully]               |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.2   |  |
| 13   | ME → UICC | FETCH  |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2  | [200 Bytes]                                    |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2  | [Command performed successfully]               |
| 16   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.3   |  |
| 17   | ME → UICC | FETCH  |  |
| 18   | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3  | [200 Bytes]                                    |
| 19   | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3  | [Command performed successfully]               |
| 20   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.4   |  |
| 21   | ME → UICC | FETCH  |  |
| 22   | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4  | [200 Bytes]                                    |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4  | [Command performed successfully]               |
| 24   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.5   |  |
| 25   | ME → UICC | FETCH  |  |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5   | [200 Bytes]                                    |
| 27   | ME → USS  | Transfer of 1000 Bytes of data to the USS through channel 1                            |  |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5   | [Command performed successfully]               |

**PROACTIVE COMMAND: SEND DATA 1.3.1**

Logically:

## Command details

Command number: 1  
Command type: SEND DATA  
Command qualifier: Store mode

## Device identities



Source device: UICC  
 Destination device: Channel 1  
 Channel Data  
 Channel Data : 00 01 02 .. C7 (200 Bytes of data)

Coding:

|          |    |    |    |    |    |    |     |    |    |    |    |    |
|----------|----|----|----|----|----|----|-----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | D4 | 81 | 03 | 01 | 43  | 00 | 82 | 02 | 81 | 21 |
|          | B6 | 81 | C8 | 00 | 01 | 02 | ... | C7 |    |    |    |    |

TERMINAL RESPONSE: SEND DATA 1.3.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 1.3.2

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

Device identities

Source device: UICC  
 Destination device: Channel 1

Channel Data

Channel Data : C8 C9 CA .. FF 00 01 .. 8F (200 Bytes of data)

Coding:

|          |    |    |    |    |    |    |     |    |    |    |    |    |
|----------|----|----|----|----|----|----|-----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | D4 | 81 | 03 | 01 | 43  | 00 | 82 | 02 | 81 | 21 |
|          | B6 | 81 | C8 | C8 | C9 | CA | ... | FF | 00 | 02 | .. | 8F |

TERMINAL RESPONSE: SEND DATA 1.3.2

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 1.3.3

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

Device identities

Source device: UICC  
 Destination device: Channel 1

Channel Data

Channel Data : 90 91 .. FF 00 01 .. 57 (200 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | D4 | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 81 | 21 |
|          | B6 | 81 | C8 | 90 | 91 | .. | FF | 00 | 01 | .. | 57 |    |

TERMINAL RESPONSE: SEND DATA 1.3.3

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 1.3.4

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

Device identities

Source device: UICC  
 Destination device: Channel 1

Channel Data

Channel Data : 58 59 .. FF 00 01 .. 1F (200 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | D4 | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 81 | 21 |
|          | B6 | 81 | C8 | 58 | 59 | .. | FF | 00 | 01 | .. | 1F |    |

TERMINAL RESPONSE: SEND DATA 1.3.4

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Store mode

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel data length: 200 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | C8 |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 1.3.5

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data

Channel Data: 20 21 .. E7 (200 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | D4 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 |
|          | B6 | 81 | C8 | 20 | 21 | .. | E7 |    |    |    |    |    |

TERMINAL RESPONSE: SEND DATA 1.3.5

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

**Expected sequence 1.4 (SEND DATA, 2 consecutive SEND DATA Store mode)**

| 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   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]               |
| 8    | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.1   |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1  | Send 1000 Bytes of data by packet of 200 Bytes |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1  | [Command performed successfully]               |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.2   |  |
| 13   | ME → UICC | FETCH  |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2  | [200 Bytes]                                    |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2  | [Command performed successfully]               |
| 16   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.3   |  |
| 17   | ME → UICC | FETCH  |  |
| 18   | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3  | [200 Bytes]                                    |
| 19   | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3  | [Command performed successfully]               |
| 20   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.4   |  |
| 21   | ME → UICC | FETCH  |  |
| 22   | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4  | [200 Bytes]                                    |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4  | [Command performed successfully]               |
| 24   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.5   | ...  |
| 25   | ME → UICC | FETCH  |  |
| 26   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5   | [200 Bytes]                                    |
| 27   | ME → USS  | Transfer of 1000 Bytes of data to the USS through channel 1                            |  |
| 28   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5   | [Command performed successfully]               |
| 29   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.1   |  |
| 30   | ME → UICC | FETCH  |  |
| 31   | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1  | Send 1000 Bytes of data by packet of 200 Bytes |
| 32   | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1  | [Command performed successfully]               |
| 33   | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.2   |  |
| 34   | ME → UICC | FETCH  |  |

|    |           |   |                                  |
|----|-----------|---|----------------------------------|
| 35 | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2             | [200 Bytes]                      |
| 36 | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2             | [Command performed successfully] |
| 37 | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.3                  |                                  |
| 38 | ME → UICC | FETCH   |                                  |
| 39 | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3             | [200 Bytes]                      |
| 40 | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3             | [Command performed successfully] |
| 41 | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.4                  |                                  |
| 42 | ME → UICC | FETCH   |                                  |
| 43 | UICC → ME | PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4             | [200 Bytes]                      |
| 44 | ME → UICC | TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4             | [Command performed successfully] |
| 45 | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.3.5                  | ...                              |
| 46 | ME → UICC | FETCH   |                                  |
| 47 | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5              | [200 Bytes]                      |
| 48 | ME → USS  | Transfer of 1000 Bytes of data to the USS through channel 1 |                                  |
| 49 | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5              | [Command performed successfully] |

#### Expected sequence 1.5 (SEND DATA, immediate mode with a bad channel identifier)

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | 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   |                                  |
| 6    | USS → ME  | PDP context activation accept  |                                  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully] |
| 8    | UICC → ME | PROACTIVE COMMAND PENDING: SEND DATA 1.5.1   |                                  |
| 9    | ME → UICC | FETCH  |                                  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND DATA (immediate) 1.5.1   |                                  |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 1.5.1   | [Invalid channel number]         |

#### PROACTIVE COMMAND: SEND DATA 1.5.1

Logically:

##### Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

##### Device identities

Source device: UICC

Destination device: Channel 2  
 Channel Data  
 Channel Data : 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 13 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 22 | B6 |
|          | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |    |

TERMINAL RESPONSE: SEND DATA 1.5.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Bearer Independent Protocol error (3A)  
 Additional Result: Channel identifier not valid (03)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 02 | 3A |
|          | 03 |    |    |    |    |    |    |    |    |    |    |    |

### Expected sequence 1.6 Void

27.22.4.30.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.5.

27.22.4.30.2 SEND DATA (support of Text Attribute)

27.22.4.30.2.1 SEND DATA (support of Text Attribute – Left Alignment)

27.22.4.30.2.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.30.2.1.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

27.22.4.30.2.1.3 Test purpose

To verify that the ME shall display the alpha identifier according to the left alignment text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

## 27.22.4.30.2.1.4 Method of test

## 27.22.4.30.2.1.4.1 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.

## 27.22.4.30.2.1.4.2 Procedure

**Expected sequence 2.1 (SEND DATA with Text Attribute – Left Alignment)**

| Step | Direction | MESSAGE / Action                               | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND                              | See initial conditions  |
| 2    | ME → UICC | PENDING: OPEN CHANNEL 1.1.1                    |   |
| 3    | UICC → ME | FETCH  |   |
| 4    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1          |   |
| 5    | ME → USER | The ME may display channel opening information |   |
| 6    | ME → USS  | PDP context activation request                 |   |
| 7    | USS → ME  | PDP context activation accept                  |   |
| 8    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A         | [Command performed successfully]  |
| 9    |           | or   |   |
| 10   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B         |   |
| 11   | UICC → ME | PROACTIVE COMMAND                              |   |
| 12   | ME → UICC | PENDING: SEND DATA 2.1.1                       |   |
| 13   | UICC → ME | FETCH  |   |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.1.1             | [alpha identifier shall be displayed with left alignment]   |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.1.1 | [Command performed successfully]  |
| 16   | UICC → ME | PROACTIVE COMMAND                              |   |
| 17   | ME → UICC | PENDING: SEND DATA 2.1.2                       |   |
| 18   | UICC → ME | FETCH  |   |
| 19   | UICC → ME | PROACTIVE COMMAND: SEND DATA 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.2/22, no alignment change will take place] |
| 20   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.1.1 | [Command performed successfully]  |

PROACTIVE COMMAND: SEND DATA 2.1.1



Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Send Data 1"

Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Text Attribute

Formatting position: 0  
 Formatting length: 11  
 Formatting mode: Left Alignment, Normal Font, Bold On, Italic On, Underline Off,  
 Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 31 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 00 | B4 |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 2.1.2

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Send Data 2"

Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 32 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |

TERMINAL RESPONSE: SEND DATA 2.1.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

#### 27.22.4.30.2.1.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.1.

#### 27.22.4.30.2.2 SEND DATA (support of Text Attribute – Center Alignment)

##### 27.22.4.30.2.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.30.2.2.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

##### 27.22.4.30.2.2.3 Test purpose

To verify that the ME shall display the alpha identifier according to the center alignment text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

##### 27.22.4.30.2.2.4 Method of test

###### 27.22.4.30.2.2.4.1 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.

27.22.4.30.2.2.4.2 Procedure

**Expected sequence 2.2 (SEND DATA with Text Attribute – Center Alignment)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   | See initial conditions   |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: OPEN<br>CHANNEL 1.1.1   |  |
| 4    | ME → USER | The ME may display channel<br>opening information  |  |
| 5    | ME → USS  | PDP context activation request   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.2.1  |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.2.1  | [alpha identifier shall be displayed with center<br>alignment]   |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.2.1  | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.2.2  |  |
| 13   | ME → UICC | FETCH  |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.2.2  | [Message shall be formatted without center<br>alignment. Remark: If center alignment is the<br>ME's default alignment as declared in table<br>A.2/22, no alignment change will take place] |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.2.1  | [Command performed successfully]   |

PROACTIVE COMMAND: SEND DATA 2.2.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier

"Send Data 1"

Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Text Attribute

Formatting position: 0  
 Formatting length: 11  
 Formatting mode: Center Alignment, Normal Font, Bold On, Italic On, Underline Off,  
 Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 31 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 01 | B4 |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 2.2.2

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Alpha Identifier

"Send Data 2"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 32 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |

## TERMINAL RESPONSE: SEND DATA 2.2.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

## 27.22.4.30.2.2.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.2.

## 27.22.4.30.2.3 SEND DATA (support of Text Attribute – Right Alignment)

## 27.22.4.30.2.3.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.30.2.3.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

### 27.22.4.30.2.3.3 Test purpose

To verify that the ME shall display the alpha identifier according to the right alignment text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

### 27.22.4.30.2.3.4 Method of test

#### 27.22.4.30.2.3.4.1 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.         |

27.22.4.30.2.3.4.2 Procedure

**Expected sequence 2.3 (SEND DATA with Text Attribute – Right Alignment)**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   | See initial conditions   |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: OPEN<br>CHANNEL 1.1.1   |  |
| 4    | ME → USER | The ME may display channel<br>opening information  |  |
| 5    | ME → USS  | PDP context activation request   |  |
| 6    | USS → ME  | PDP context activation accept  |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully]   |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.3.1  |  |
| 9    | ME → UICC | FETCH  |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.3.1  | [alpha identifier shall be displayed with right<br>alignment]  |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.3.1  | [Command performed successfully]   |
| 12   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.3.2  |  |
| 13   | ME → UICC | FETCH  |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.3.2  | [Message shall be formatted without right<br>alignment. Remark: If right alignment is the<br>ME's default alignment as declared in table<br>A.2/22, no alignment change will take place] |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.3.1  | [Command performed successfully]   |

PROACTIVE COMMAND: SEND DATA 2.3.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier

"Send Data 1"

Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Text Attribute

Formatting position: 0  
 Formatting length: 11  
 Formatting mode: Right Alignment, Normal Font, Bold On, Italic On, Underline Off,  
 Strikethrough Off  
 Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 31 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 02 | B4 |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 2.3.2

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Alpha Identifier

"Send Data 2"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 32 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |

## TERMINAL RESPONSE: SEND DATA 2.3.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

## 27.22.4.30.2.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.3.

## 27.22.4.30.2.4 SEND DATA (support of Text Attribute – Large Font Size)

## 27.22.4.30.2.4.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.30.2.4.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

#### 27.22.4.30.2.4.3 Test purpose

To verify that the ME shall display the alpha identifier according to the large font size text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

#### 27.22.4.30.2.4.4 Method of test

##### 27.22.4.30.2.4.4.1 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.         |



## 27.22.4.30.2.4.4.2 Procedure

**Expected sequence 2.4 (SEND DATA with Text Attribute – Large Font Size)**

| Step | Direction | MESSAGE / Action  | Comments   |
|------|-----------|---|--|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1  | See initial conditions   |
| 2    | ME → UICC | FETCH   |  |
| 3    | UICC → ME | PROACTIVE COMMAND: OPEN<br>CHANNEL 1.1.1  |  |
| 4    | ME → USER | The ME may display channel<br>opening information   |  |
| 5    | ME → USS  | PDP context activation request  |  |
| 6    | USS → ME  | PDP context activation accept   |  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A or TERMINAL<br>RESPONSE: OPEN CHANNEL<br>1.1.1B | [Command performed successfully]                               |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.4.1   |  |
| 9    | ME → UICC | FETCH   |  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.4.1   | [alpha identifier shall be displayed with large<br>font size]  |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.4.1   | [Command performed successfully]                               |
| 12   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.4.2   |  |
| 13   | ME → UICC | FETCH   |  |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.4.2   | [alpha identifier shall be displayed with normal<br>font size] |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.4.1   | [Command performed successfully]                               |
| 16   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.4.1   |  |
| 17   | ME → UICC | FETCH   |  |
| 18   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.4.1   | [alpha identifier shall be displayed with large<br>font size]  |
| 19   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.4.1   | [Command performed successfully]                               |
| 20   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.4.3   |  |
| 21   | ME → UICC | FETCH   |  |
| 22   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.4.3   | [alpha identifier shall be displayed with normal<br>font size] |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.4.1   | [Command performed successfully]                               |

## PROACTIVE COMMAND: SEND DATA 2.4.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Send Data 1"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Text Attribute

Formatting position: 0  
 Formatting length: 11

Formatting mode: Left Alignment, Large Font, Bold On, Italic On, Underline Off,  
Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 31 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 04 | B4 |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 2.4.2

Logically:

Command details

Command number: 1  
Command type: SEND DATA  
Command qualifier: Send Immediately

Device identities

Source device: UICC  
Destination device: Channel 1

Alpha Identifier "Send Data 2"

Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Text Attribute

Formatting position: 0  
Formatting length: 11  
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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 32 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 00 | B4 |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 2.4.3

Logically:

Command details

Command number: 1  
Command type: SEND DATA  
Command qualifier: Send Immediately

Device identities

Source device: UICC  
Destination device: Channel 1

Alpha Identifier "Send Data 3"

Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 33 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |

TERMINAL RESPONSE: SEND DATA 2.4.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

#### 27.22.4.30.2.4.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.4.

#### 27.22.4.30.2.5 SEND DATA (support of Text Attribute – Small Font Size)

##### 27.22.4.30.2.5.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.30.2.5.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

##### 27.22.4.30.2.5.3 Test purpose

To verify that the ME shall display the alpha identifier according to the small font size text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

##### 27.22.4.30.2.5.4 Method of test

###### 27.22.4.30.2.5.4.1 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.

#### 27.22.4.30.2.5.4.2 Procedure

#### Expected sequence 2.5 (SEND DATA with Text Attribute – Small Font Size)

| Step | Direction | MESSAGE / Action   | Comments               |   |
|------|-----------|--|------------------------|---|
| 1    | UICC → ME | PROACTIVE COMMAND  | See initial conditions |   |
| 2    | ME → UICC | PENDING: OPEN CHANNEL 1.1.1<br>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   |                        |   |
| 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  |                        |   |
| 9    | ME → UICC | PENDING: SEND DATA 2.5.1<br>FETCH  |                        |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.5.1   |                        | [alpha identifier shall be displayed with small font size]  |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1                                   |                        | [Command performed successfully]                            |
| 12   | UICC → ME | PROACTIVE COMMAND  |                        |   |
| 13   | ME → UICC | PENDING: SEND DATA 2.5.2<br>FETCH  |                        |   |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.5.2   |                        | [alpha identifier shall be displayed with normal font size] |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1                                   |                        | [Command performed successfully]                            |
| 16   | UICC → ME | PROACTIVE COMMAND  |                        |   |
| 17   | ME → UICC | PENDING: SEND DATA 2.5.1<br>FETCH  |                        |   |
| 18   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.5.1   |                        | [alpha identifier shall be displayed with small font size]  |
| 19   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1                                   |                        | [Command performed successfully]                            |
| 20   | UICC → ME | PROACTIVE COMMAND  |                        |   |
| 21   | ME → UICC | PENDING: SEND DATA 2.5.3<br>FETCH  |                        |   |
| 22   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.5.3   |                        | [alpha identifier shall be displayed with normal font size] |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.5.1                                   |                        | [Command performed successfully]                            |

PROACTIVE COMMAND: SEND DATA 2.5.1

Logically:

Command details

Command number: 1  
Command type: SEND DATA  
Command qualifier: Send Immediately

Device identities

Source device: UICC  
Destination device: Channel 1

Alpha Identifier "Send Data 1"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Text Attribute

Formatting position: 0

Formatting length: 11

Formatting mode: Left Alignment, Small Font, Bold On, Italic On, Underline Off,  
Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 31 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 08 | B4 |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 2.5.2

## Logically:

## Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Send Immediately

## Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Send Data 2"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Text Attribute

Formatting position: 0

Formatting length: 11

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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 32 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 00 | B4 |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 2.5.3

## Logically:

## Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Send Immediately

## Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Send Data 3"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 33 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |

TERMINAL RESPONSE: SEND DATA 2.5.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

#### 27.22.4.30.2.5.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.5.

#### 27.22.4.30.2.6 SEND DATA (support of Text Attribute – Bold On)

##### 27.22.4.30.2.6.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.30.2.6.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

##### 27.22.4.30.2.6.3 Test purpose

To verify that the ME shall display the alpha identifier according to the bold text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

##### 27.22.4.30.2.6.4 Method of test

###### 27.22.4.30.2.6.4.1 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.

#### 27.22.4.30.2.6.4.2 Procedure

#### Expected sequence 2.6 (SEND DATA with Text Attribute – Bold On)

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND  | See initial conditions                              |
| 2    | ME → UICC | PENDING: OPEN CHANNEL 1.1.1<br>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   |   |
| 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 |   |
| 8    | UICC → ME | PROACTIVE COMMAND  | [alpha identifier shall be displayed with Bold on]  |
| 9    | ME → UICC | PENDING: SEND DATA 2.6.1<br>FETCH  |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.6.1   | [Command performed successfully]                    |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1                                   | [alpha identifier shall be displayed with bold off] |
| 12   | UICC → ME | PROACTIVE COMMAND  |   |
| 13   | ME → UICC | PENDING: SEND DATA 2.6.2<br>FETCH  | [Command performed successfully]                    |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.6.2   | [alpha identifier shall be displayed with bold on]  |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1                                   |   |
| 16   | UICC → ME | PROACTIVE COMMAND  | [alpha identifier shall be displayed with bold off] |
| 17   | ME → UICC | PENDING: SEND DATA 2.6.1<br>FETCH  |   |
| 18   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.6.1   | [Command performed successfully]                    |
| 19   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1                                   | [alpha identifier shall be displayed with bold off] |
| 20   | UICC → ME | PROACTIVE COMMAND  |   |
| 21   | ME → UICC | PENDING: SEND DATA 2.6.3<br>FETCH  | [Command performed successfully]                    |
| 22   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.6.3   | [alpha identifier shall be displayed with bold off] |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.6.1                                   |   |

PROACTIVE COMMAND: SEND DATA 2.6.1

Logically:

Command details

Command number: 1

Command type: SEND DATA  
 Command qualifier: Send Immediately  
 Device identities  
 Source device: UICC  
 Destination device: Channel 1  
 Alpha Identifier "Send Data 1"  
 Channel Data  
 Channel Data: 00 01 .. 07 (8 Bytes of data)  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 11  
 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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 31 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 10 | B4 |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 2.6.2

Logically:

Command details  
 Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately  
 Device identities  
 Source device: UICC  
 Destination device: Channel 1  
 Alpha Identifier "Send Data 2"  
 Channel Data  
 Channel Data: 00 01 .. 07 (8 Bytes of data)  
 Text Attribute  
 Formatting position: 0  
 Formatting length: 11  
 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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 32 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 00 | B4 |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 2.6.3

Logically:

Command details  
 Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately  
 Device identities  
 Source device: UICC  
 Destination device: Channel 1



Alpha Identifier "Send Data 3"  
 Channel Data  
 Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 33 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |

TERMINAL RESPONSE: SEND DATA 2.6.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

#### 27.22.4.30.2.6.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.6.

#### 27.22.4.30.2.7 SEND DATA (support of Text Attribute – Italic On)

##### 27.22.4.30.2.7.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.30.2.7.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

##### 27.22.4.30.2.7.3 Test purpose

To verify that the ME shall display the alpha identifier according to the italic text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

##### 27.22.4.30.2.7.4 Method of test

###### 27.22.4.30.2.7.4.1 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.

#### 27.22.4.30.2.7.4.2 Procedure

#### Expected sequence 2.7 (SEND DATA with Text Attribute – *Italic On*)

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>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   |   |
| 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<br>PENDING: SEND DATA 2.7.1                                    |   |
| 9    | ME → UICC | FETCH  |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.7.1   | [alpha identifier shall be displayed with <i>Italic on</i> ]  |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1                                   | [Command performed successfully]                              |
| 12   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.7.2                                    |   |
| 13   | ME → UICC | FETCH  |   |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.7.2   | [alpha identifier shall be displayed with <i>italic off</i> ] |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1                                   | [Command performed successfully]                              |
| 16   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.7.1                                    |   |
| 17   | ME → UICC | FETCH  |   |
| 18   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.7.1   | [alpha identifier shall be displayed with <i>italic on</i> ]  |
| 19   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1                                   | [Command performed successfully]                              |
| 20   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.7.3                                    |   |
| 21   | ME → UICC | FETCH  |   |
| 22   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.7.3   | [alpha identifier shall be displayed with <i>italic off</i> ] |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.7.1                                   | [Command performed successfully]                              |

## PROACTIVE COMMAND: SEND DATA 2.7.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Send Data 1"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 31 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 20 | B4 |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 2.7.2

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Send Data 2"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 32 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 00 | B4 |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 2.7.3

Logically:

## Command details

Command number: 1

Command type: SEND DATA  
 Command qualifier: Send Immediately  
 Device identities  
 Source device: UICC  
 Destination device: Channel 1  
 Alpha Identifier "Send Data 3"  
 Channel Data  
 Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 33 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |

TERMINAL RESPONSE: SEND DATA 2.7.1

Logically:

Command details  
 Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

#### 27.22.4.30.2.7.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.7.

#### 27.22.4.30.2.8 SEND DATA (support of Text Attribute – Underline On)

##### 27.22.4.30.2.8.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.30.2.8.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

##### 27.22.4.30.2.8.3 Test purpose

To verify that the ME shall display the alpha identifier according to the underline text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

##### 27.22.4.30.2.8.4 Method of test

###### 27.22.4.30.2.8.4.1 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.         |

## 27.22.4.30.2.8.4.2 Procedure

**Expected sequence 2.8 (SEND DATA with Text Attribute – Underline On)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1  | See initial conditions                                      |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: OPEN<br>CHANNEL 1.1.1  |   |
| 4    | ME → USER | The ME may display channel<br>opening information   |   |
| 5    | ME → USS  | PDP context activation request  |   |
| 6    | USS → ME  | PDP context activation accept   |   |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A or TERMINAL<br>RESPONSE: OPEN CHANNEL<br>1.1.1B | [Command performed successfully]                            |
| 8    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.8.1   |   |
| 9    | ME → UICC | FETCH   |   |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.8.1   | [alpha identifier shall be displayed with<br>underline on]  |
| 11   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.8.1   | [Command performed successfully]                            |
| 12   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.8.2   |   |
| 13   | ME → UICC | FETCH   |   |
| 14   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.8.2   | [alpha identifier shall be displayed with<br>underline off] |
| 15   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.8.1   | [Command performed successfully]                            |
| 16   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.8.1   |   |
| 17   | ME → UICC | FETCH   |   |
| 18   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.8.1   | [alpha identifier shall be displayed with<br>underline on]  |
| 19   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.8.1   | [Command performed successfully]                            |
| 20   | UICC → ME | PROACTIVE COMMAND<br>PENDING: SEND DATA 2.8.3   |   |
| 21   | ME → UICC | FETCH   |   |
| 22   | UICC → ME | PROACTIVE COMMAND: SEND<br>DATA 2.8.3   | [alpha identifier shall be displayed with<br>underline off] |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND<br>DATA (immediate) 2.8.1   | [Command performed successfully]                            |

## PROACTIVE COMMAND: SEND DATA 2.8.1

Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Send Data 1"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Text Attribute

Formatting position: 0  
 Formatting length: 11

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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 31 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 40 | B4 |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 2.8.2

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Send Data 2"

Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Text Attribute

Formatting position: 0  
 Formatting length: 11  
 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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 32 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 00 | B4 |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 2.8.3

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Send Data 3"

Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 33 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |

TERMINAL RESPONSE: SEND DATA 2.8.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

#### 27.22.4.30.2.8.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.8.

#### 27.22.4.30.2.9 SEND DATA (support of Text Attribute – Strikethrough On)

##### 27.22.4.30.2.9.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.30.2.9.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

##### 27.22.4.30.2.9.3 Test purpose

To verify that the ME shall display the alpha identifier according to the strikethrough text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

##### 27.22.4.30.2.9.4 Method of test

###### 27.22.4.30.2.9.4.1 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.

#### 27.22.4.30.2.9.4.2 Procedure

#### Expected sequence 2.9 (SEND DATA with Text Attribute – Strikethrough On)

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND  | See initial conditions                                       |
| 2    | ME → UICC | PENDING: OPEN CHANNEL 1.1.1  |  |
| 3    | UICC → ME | FETCH  |  |
| 4    | ME → USER | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1  |  |
| 5    | ME → USS  | The ME may display channel opening information                                   |  |
| 6    | USS → ME  | PDP context activation request   |  |
| 7    | ME → UICC | PDP context activation accept  |  |
| 8    | UICC → ME | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]                             |
| 9    | UICC → ME | PROACTIVE COMMAND  | [alpha identifier shall be displayed with strikethrough on]  |
| 10   | ME → UICC | PENDING: SEND DATA 2.9.1   |  |
| 11   | UICC → ME | FETCH  |  |
| 12   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.9.1   | [Command performed successfully]                             |
| 13   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1                                   | [alpha identifier shall be displayed with strikethrough off] |
| 14   | UICC → ME | PROACTIVE COMMAND  |  |
| 15   | ME → UICC | PENDING: SEND DATA 2.9.2   |  |
| 16   | UICC → ME | FETCH  | [Command performed successfully]                             |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.9.2   | [alpha identifier shall be displayed with strikethrough on]  |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1                                   |  |
| 19   | UICC → ME | PROACTIVE COMMAND  |  |
| 20   | UICC → ME | PENDING: SEND DATA 2.9.1   | [Command performed successfully]                             |
| 21   | ME → UICC | FETCH  | [alpha identifier shall be displayed with strikethrough off] |
| 22   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.9.3   |  |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.9.1                                   |  |

PROACTIVE COMMAND: SEND DATA 2.9.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Send Data 1"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Text Attribute

Formatting position: 0

Formatting length: 11

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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 31 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 80 | B4 |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 2.9.2

## Logically:

## Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Send Immediately

## Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Send Data 2"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Text Attribute

Formatting position: 0

Formatting length: 11

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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 32 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 00 | B4 |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 2.9.3

## Logically:

## Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Send Immediately

## Device identities

Source device: UICC

Destination device: Channel 1

Alpha Identifier "Send Data 3"

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 33 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |

TERMINAL RESPONSE: SEND DATA 2.9.1

Logically:

Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

#### 27.22.4.30.2.9.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.9.

#### 27.22.4.30.2.10 SEND DATA (support of Text Attribute – Foreground and Background Colour)

##### 27.22.4.30.2.10.1 Definition and applicability

See clause 3.2.2.

##### 27.22.4.30.2.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

##### 27.22.4.30.2.10.3 Test purpose

To verify that the ME shall display the alpha identifier according to the foreground and background colour text attribute configuration in the SEND DATA proactive command and send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC.

##### 27.22.4.30.2.10.4 Method of test

###### 27.22.4.30.2.10.4.1 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.

#### 27.22.4.30.2.10.4.2 Procedure

#### Expected sequence 2.10 (SEND DATA with Text Attribute – Foreground and Background Colour)

| Step | Direction | MESSAGE / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND  | See initial conditions  |
| 2    | ME → UICC | PENDING: OPEN CHANNEL 1.1.1  |   |
| 3    | UICC → ME | FETCH  |   |
| 4    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1  |   |
| 5    | ME → USER | The ME may display channel opening information                                   |   |
| 6    | ME → USS  | PDP context activation request   |   |
| 7    | USS → ME  | PDP context activation accept  |   |
| 8    | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B | [Command performed successfully]  |
| 9    | UICC → ME | PROACTIVE COMMAND  | [alpha identifier shall be displayed with foreground and background colour according to the text attribute configuration] |
| 10   | UICC → ME | PENDING: SEND DATA 2.10.1  |   |
| 11   | ME → UICC | FETCH  |   |
| 12   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.10.1  |   |
| 13   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.10.1                                  |   |
| 14   | UICC → ME | PROACTIVE COMMAND  |   |
| 15   | UICC → ME | PENDING: SEND DATA 2.10.2  |   |
| 16   | ME → UICC | FETCH  |   |
| 17   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.10.2  |   |
| 18   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.10.2                                  |   |
| 19   | UICC → ME | PROACTIVE COMMAND  |   |
| 20   | UICC → ME | PENDING: SEND DATA 2.10.1  |   |
| 21   | ME → UICC | FETCH  |   |
| 22   | UICC → ME | PROACTIVE COMMAND: SEND DATA 2.10.1  |   |
| 23   | ME → UICC | TERMINAL RESPONSE: SEND DATA (immediate) 2.10.1                                  |   |

PROACTIVE COMMAND: SEND DATA 2.10.1

Logically:

##### Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

##### Device identities

Source device: UICC  
 Destination device: Channel 1

Alpha Identifier "Send Data 1"

##### Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

##### Text Attribute

Formatting position: 0  
 Formatting length: 11

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 | 26 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 31 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | D0 | 04 |
|          | 00 | 0B | 00 | B4 |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 2.10.2

Logically:

Command details

Command number: 1  
Command type: SEND DATA  
Command qualifier: Send Immediately

Device identities

Source device: UICC  
Destination device: Channel 1

Alpha Identifier "Send Data 2"

Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 20 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | 85 |
|          | 0B | 53 | 65 | 6E | 64 | 20 | 44 | 61 | 74 | 61 | 20 | 32 |
|          | B6 | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |

TERMINAL RESPONSE: SEND DATA 2.10.1

Logically:

Command details

Command number: 1  
Command type: SEND DATA  
Command qualifier: Send Immediately

Device identities

Source device: ME  
Destination device: UICC

Result

General Result: Command performed successfully  
Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

27.22.4.30.2.10.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 2.10.

### 27.22.4.30.3 SEND DATA (E-UTRAN)

#### 27.22.4.30.3.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.30.3.2 Conformance requirements

The ME shall support the class "e" commands and E-UTRAN as defined in:

- TS 31.111 [15].

#### 27.22.4.30.3.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC after the ME receives the SEND DATA 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.

To verify that the ME uses the default EPS bearer as requested in the Open Channel Command.

#### 27.22.4.30.3.4 Method of test

##### 27.22.4.30.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the E-USS. 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.

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.

## 27.22.4.30.3.4.2 Procedure

**Expected sequence 3.1 (SEND DATA, E-UTRAN, Defaults EPS bearer, immediate mode)**

| Step | Direction  | MESSAGE / Action   | Comments  |
|------|------------|--|---|
| 1    | UICC → ME  | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 3.1.1   | See initial conditions                                      |
| 2    | ME → UICC  | FETCH  |   |
| 3    | UICC → ME  | PROACTIVE COMMAND: OPEN<br>CHANNEL 3.1.1   |   |
| 4    | ME → USER  | The ME may display channel<br>opening information  | [The user shall confirm the channel opening if<br>required] |
| 5    | ME → E-USS | No PDN connectivity request  |   |
| 6    | ME → UICC  | TERMINAL RESPONSE: OPEN<br>CHANNEL 3.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 3.1.1B | [Command performed successfully]                            |
| 7    | UICC → ME  | PROACTIVE COMMAND<br>PENDING: SEND DATA 3.1.1  |   |
| 8    | ME → UICC  | FETCH  |   |
| 9    | UICC → ME  | PROACTIVE COMMAND: SEND<br>DATA (immediate) 3.1.1  |   |
| 10   | ME → E-USS | Transfer of 8 Bytes of data to the<br>USS through channel 1                                  |   |
| 11   | ME → UICC  | TERMINAL RESPONSE: SEND<br>DATA (immediate) 3.1.1  | [Command performed successfully]                            |
| 12   | UICC → ME  | PROACTIVE COMMAND<br>PENDING: CLOSE CHANNEL<br>3.1.1   |   |
| 13   | ME → UICC  | FETCH  |   |
| 14   | UICC → ME  | PROACTIVE COMMAND: CLOSE<br>CHANNEL 3.1.1  |   |
| 15   | ME → UICC  | TERMINAL RESPONSE CLOSE<br>CHANNEL 3.1.1   | [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

## Device identities

Source device: UICC  
 Destination device: ME

## Bearer

Bearer type: Default bearer for requested transport layer

## Buffer

Buffer size: 1400

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 | 30 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 35 |
|          | 01 | 03 | 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 | 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

## 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 3.1.1B

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

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 |    |    |    |

PROACTIVE COMMAND: SEND DATA 3.1.1

Logically:

Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Send Immediately

Device identities

Source device: UICC

Destination device: Channel 1

Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 13 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | B6 |
|          | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |    |

TERMINAL RESPONSE: SEND DATA 3.1.1

Logically:

Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Send Immediately

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

|    |    |    |  |  |  |  |  |  |  |  |  |  |
|----|----|----|--|--|--|--|--|--|--|--|--|--|
| B7 | 01 | FF |  |  |  |  |  |  |  |  |  |  |
|----|----|----|--|--|--|--|--|--|--|--|--|--|

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 (SEND DATA, E-UTRAN, APN different from default APN, Store mode)

| Step | Direction | MESSAGE / Action   | Comments |
|------|-----------|--|----------|
| 1    | UICC → ME | <b>PROACTIVE COMMAND PENDING:<br/>OPEN CHANNEL 3.2.1</b> |          |
| 2    | ME → UICC | <b>FETCH</b>   |          |

|    |            |  |  |
|----|------------|--|--|
| 3  | UICC → ME  | PROACTIVE COMMAND: OPEN CHANNEL 3.2.1                      |  |
| 4  | ME → USER  | The ME should not display channel opening information      |  |
| 5  | ME → E-USS | PDN CONNECTIVITY REQUEST                                   | [The PDN CONNECTIVITY REQUEST shall contain the APN "Test12.rs"] |
| 6  | E-USS → ME | ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST                | [The E-UTRAN parameters are used]                                |
| 7  | ME → E-USS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT                 |  |
| 8  | ME → UICC  | TERMINAL RESPONSE: OPEN CHANNEL 3.2.1                      | [Command performed successfully]                                 |
| 9  | UICC → ME  | PROACTIVE COMMAND PENDING: SEND DATA 3.2.1                 |  |
| 10 | ME → UICC  | FETCH  |  |
| 11 | UICC → ME  | PROACTIVE COMMAND: SEND DATA (store mode) 3.2.1            | Send 500 Bytes of data (200 + 200 + 100)                         |
| 12 | ME → UICC  | TERMINAL RESPONSE: SEND DATA (store mode) 3.2.1            | [Command performed successfully]                                 |
| 13 | UICC → ME  | PROACTIVE COMMAND PENDING: SEND DATA 3.2.2                 |  |
| 14 | ME → UICC  | FETCH  |  |
| 15 | UICC → ME  | PROACTIVE COMMAND: SEND DATA (store mode) 3.2.2            | [200 Bytes]  |
| 16 | ME → UICC  | TERMINAL RESPONSE: SEND DATA (store mode) 3.2.2            | [Command performed successfully]                                 |
| 17 | UICC → ME  | PROACTIVE COMMAND PENDING: SEND DATA 3.2.3                 |  |
| 18 | ME → UICC  | FETCH  |  |
| 19 | UICC → ME  | PROACTIVE COMMAND: SEND DATA (Immediate mode) 3.2.3        | [100 Bytes]  |
| 20 | ME → E-USS | Transfer of 500 Bytes of data to the USS through channel 1 |  |
| 21 | ME → UICC  | TERMINAL RESPONSE: SEND DATA (Immediate mode) 3.2.3        | [Command performed successfully]                                 |
| 22 | UICC → ME  | PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.2.1             |  |
| 23 | ME → UICC  | FETCH  |  |
| 24 | UICC → ME  | PROACTIVE COMMAND: CLOSE CHANNEL 3.2.1                     |  |

|    |           |                                       |                                  |
|----|-----------|---------------------------------------|----------------------------------|
| 25 | ME → UICC | TERMINAL RESPONSE CLOSE CHANNEL 3.2.1 | [Command performed successfully] |
|----|-----------|---------------------------------------|----------------------------------|

PROACTIVE COMMAND: OPEN CHANNEL 3.2.1

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: empty

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 | 44 | 81 | 03 | 01 | 40 | 01 | 82 | 02 | 81 | 82 | 85 |
|          | 00 | 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 |    |    |

## TERMINAL RESPONSE: OPEN CHANNEL 3.2.1

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

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 |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 3.2.1

Logically:

## Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Store mode

## Device identities

Source device: UICC

Destination device: Channel 1

## Channel Data

Channel Data : 00 01 .. C7 (200 Bytes of data)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | D4 | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 81 | 21 |
|          | B6 | 81 | C8 | 00 | 01 | .. | C7 |    |    |    |    |    |

## TERMINAL RESPONSE: SEND DATA 3.2.1

## Logically:

## Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Store mode

## Device identities

Source device: ME

Destination device: UICC

## Result

General Result: Command performed successfully

Channel data length: More than 255 bytes of space available in the Tx buffer

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: SEND DATA 3.2.2

## Logically:

## Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Store mode

Device identities

Source device: UICC

Destination device: Channel 1

Channel Data

Channel Data : C8 C9 .. FF 00 01 .. 8F (200 Bytes of data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 81 | D4 | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 81 | 21 |
|          | B6 | 81 | C8 | C8 | C9 | .. | FF | 00 | 01 | .. | 8F |    |

TERMINAL RESPONSE: SEND DATA 3.2.2

Logically:

Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Store mode

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Channel data length: More than 255 bytes of space available in the Tx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: SEND DATA 3.2.3

Logically:

Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Immediate mode

## Device identities

Source device: UICC

Destination device: Channel 1

## Channel Data

Channel Data : 90 91 .. F3 (100 Bytes of data)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 6F | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | B6 |
|          | 64 | 90 | 91 | .. | F3 |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SEND DATA 3.2.3

## Logically:

## Command details

Command number: 1

Command type: SEND DATA

Command qualifier: Immediate mode

## Device identities

Source device: ME

Destination device: UICC

## Result

General Result: Command performed successfully

Channel data length: More than 255 bytes of space available in the Tx buffer

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

## PROACTIVE COMMAND: CLOSE CHANNEL 3.2.1

Same as PROACTIVE COMMAND: CLOSE CHANNEL 3.1.1 from sequence 1.1.

## TERMINAL RESPONSE: CLOSE CHANNEL 3.2.1

Same as Terminal Response: CLOSE CHANNEL 3.1.1 from sequence 1.1.

## 27.22.4.30.3.5 Test Requirement

The ME shall operate in the manner defined in expected sequences 3.1 to 3.2.



### 27.22.4.31 GET CHANNEL STATUS

#### 27.22.4.31.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.31.2 Conformance requirements

The ME shall support the class "e" commands and additionally E-UTRAN for sequences 1.4 to 1.5 as defined in:

- TS 31.111 [15].

#### 27.22.4.31.3 Test purpose

To verify that the ME shall send a TERMINAL RESPONSE (Command Performed Successfully) to the UICC after the ME receives the GET STATUS 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.

#### 27.22.4.31.4 Method of test

##### 27.22.4.31.4.1 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.

For sequences 1.1 to 1.3:

The following Bearer Parameters used are those defined in the default Test PDP context3, 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.

For sequences 1.4 to 1.5

The ME is connected to the USIM Simulator and the E-USS. 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.

## 27.22.4.31.4.2 Procedure

**Expected sequence 1.1 (GET STATUS, without any BIP channel opened)**

For that test, no channel has been opened.

| Step | Direction | MESSAGE / Action  | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: GET CHANNEL<br>STATUS 1.1.1   |                                  |
| 2    | ME → UICC | FETCH   |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: GET<br>STATUS 1.1.1  |                                  |
| 4    | ME → UICC | TERMINAL RESPONSE GET<br>STATUS 1.1.1 A<br>Or<br>TERMINAL RESPONSE: GET<br>STATUS 1.1.1B<br>Or<br>TERMINAL RESPONSE: GET<br>STATUS 1.1.1C | [Command performed successfully] |

## PROACTIVE COMMAND: GET STATUS 1.1.1

Logically:

## Command details

Command number: 1  
Command type: GET STATUS  
Command qualifier: RFU

## Device identities

Source device: UICC  
Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 44 | 00 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

## TERMINAL RESPONSE: GET STATUS 1.1.1A

Logically:

## Command details

Command number: 1  
Command type: GET STATUS  
Command qualifier: RFU

## Device identities

Source device: ME  
Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 44 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## TERMINAL RESPONSE: GET STATUS 1.1.1B

Logically:

## Command details

Command number: 1

Command type: GET STATUS  
 Command qualifier: RFU  
 Device identities  
     Source device: ME  
     Destination device: UICC  
 Result  
     General Result: Command performed successfully  
 Channel status  
     Channel status: No Channel available, link not established or PDP context not activated

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 44 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B8 | 02 | 00 | 00 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: GET STATUS 1.1.1C

Logically:

Command details  
     Command number: 1  
     Command type: GET STATUS  
     Command qualifier: RFU  
 Device identities  
     Source device: ME  
     Destination device: UICC  
 Result  
     General Result: Command performed successfully  
 Channel status  
     Channel 1 status: Channel identifier 1, Link not established or PDP context not activated  
     Channel 2 status: Channel identifier 2, Link not established or PDP context not activated  
     .  
     .  
     Channel n status: Channel identifier n, Link not established or PDP context not activated

The number of channel status data objects shall be same as the number of channels(n) supported by the ME

Coding:

|          |       |    |    |    |    |    |    |    |    |    |    |    |
|----------|-------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81    | 03 | 01 | 44 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | Note1 |    |    |    |    |    |    |    |    |    |    |    |

Note1: The Terminal Response shall contain as many channel status TLVs as channels are supported by the ME. Each channel status TLV coding shall indicate the corresponding channel identifier and shall state "Link not established or PDP context not activated". As an example, if the mobile supports two channels then the corresponding channel status data objects coding would be : 'B8 02 01 00 B8 02 02 00'.

**Expected sequence 1.2 (GET STATUS, with a BIP channel currently opened)**

| Step | Direction | MESSAGE / Action  | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL<br>1.1.1                                       | See initial conditions           |
| 2    | ME → UICC | FETCH   |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: OPEN<br>CHANNEL 1.1.1  |                                  |
| 4    | ME → USS  | PDP context activation request  |                                  |
| 5    | USS → ME  | PDP context activation accept   |                                  |
| 6    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A or TERMINAL<br>RESPONSE: OPEN CHANNEL<br>1.1.1B | [Command performed successfully] |
| 7    | UICC → ME | PROACTIVE COMMAND<br>PENDING: GET CHANNEL<br>STATUS 1.2.1                                 |                                  |
| 8    | ME → UICC | FETCH   |                                  |
| 9    | UICC → ME | PROACTIVE COMMAND: GET<br>STATUS 1.2.1  |                                  |
| 10   | ME → UICC | TERMINAL RESPONSE GET<br>STATUS 1.2.1 A<br>Or<br>TERMINAL RESPONSE: GET<br>STATUS 1.2.1B  | [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: GET STATUS 1.2.1

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 44 | 00 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

TERMINAL RESPONSE: GET STATUS 1.2.1A

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Channel status

Channel status: Channel 1 open, link established or PDP context activated

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 44 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B8 | 02 | 81 | 00 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: GET STATUS 1.2.1B

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Channel status

Channel 1 status: Channel identifier 1 open, Link established or PDP context activated

Channel 2 status: Channel identifier 2, Link not established or PDP context not activated

.

.

Channel n status: Channel identifier n, Link not established or PDP context not activated

The number of channel status data objects shall be same as the number of channels(n) supported by the ME

Coding:

|          |       |    |    |    |    |    |    |    |    |    |    |    |
|----------|-------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81    | 03 | 01 | 44 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | Note1 |    |    |    |    |    |    |    |    |    |    |    |

Note1: The Terminal Response shall contain as many channel status TLVs as channels are supported by the ME. The channel status TLV coding of the opened channel shall state "Link established or PDP context activated". Each other channel status TLV coding shall indicate the corresponding channel identifier and shall state "Link is not established or PDP context not activated". As an example, if the mobile supports two channels and channel 1 is opened then the corresponding channel status data objects coding would be : 'B8 02 81 00 B8 02 02 00'.

#### Expected sequence 1.3 (GET STATUS, after a link dropped)

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1   |                                  |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1   |                                  |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1   | [Command performed successfully] |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1  | See initial conditions           |
| 6    | ME → UICC | FETCH  |                                  |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN CHANNEL 1.1.1  |                                  |
| 8    | ME → USS  | PDP context activation request   |                                  |
| 9    | USS → ME  | PDP context activation accept  |                                  |
| 10   | ME → UICC | TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B   | [Command performed successfully] |
| 11   | USS → ME  | DROP LINK  |                                  |
| 12   | ME → UICC | ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1  | [Link dropped]                   |
| 13   | UICC → ME | PROACTIVE COMMAND PENDING: GET STATUS 1.3.1  |                                  |
| 14   | ME → UICC | FETCH  |                                  |
| 15   | UICC → ME | PROACTIVE COMMAND: GET STATUS 1.3.1  |                                  |
| 16   | ME → UICC | TERMINAL RESPONSE: GET STATUS 1.3.1A<br>Or<br>TERMINAL RESPONSE: GET STATUS 1.3.1B<br>Or<br>TERMINAL RESPONSE: GET STATUS 1.3.1C<br>Or<br>TERMINAL RESPONSE: GET STATUS 1.3.1D<br>Or<br>TERMINAL RESPONSE: GET STATUS 1.3.1E | [Command performed successfully] |

TERMINAL RESPONSE: GET STATUS 1.3.1A

Same as TERMINAL RESPONSE: GET STATUS 1.1.1A

TERMINAL RESPONSE: GET STATUS 1.3.1B

Same as TERMINAL RESPONSE: GET STATUS 1.1.1B

TERMINAL RESPONSE: GET STATUS 1.3.1C

Same as TERMINAL RESPONSE: GET STATUS 1.1.1C

TERMINAL RESPONSE: GET STATUS 1.3.1D

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Channel status

Channel status: Channel 1, link dropped

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 44 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B8 | 02 | 01 | 05 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: GET STATUS 1.3.1E

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Channel status

Channel 1 status: Channel identifier 1, link dropped

Channel 2 status: Channel identifier 2, Link not established or PDP context not activated

.

.

Channel n status: Channel identifier n, Link not established or PDP context not activated

The number of channel status data objects shall be same as the number of channels(n) supported by the ME

Coding:



|          |    |    |    |    |       |    |    |    |    |    |    |    |
|----------|----|----|----|----|-------|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 44 | 00    | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B8 | 02 | 01 | 05 | Note1 |    |    |    |    |    |    |    |

Note1: The Terminal Response shall contain as many channel status TLVs as channels are supported by the ME. Each channel status TLV coding except that one for which the link was dropped by the SS shall indicate the corresponding channel identifier and shall state "Link not established or PDP context not activated". As an example, if the mobile supports two channels then the corresponding channel status data objects coding would be : 'B8 02 01 05 B8 02 02 00'.

#### PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

##### Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

##### Device identities

Source device: UICC  
 Destination device: ME

##### Event list

Event 1: Channel Status

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 |
|          | 99 | 01 | 0A |    |    |    |    |    |    |    |    |

#### TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

##### Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

##### Device identities

Source device: ME  
 Destination device: UICC

##### Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1

Logically:

##### Event list

Event list: Channel Status

##### Device identities

Source device: ME  
 Destination device: UICC

##### Channel status

Channel status: Channel 1, link dropped

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0B | 99 | 01 | 0A | 82 | 02 | 82 | 81 | B8 | 02 | 01 |
|          | 05 |    |    |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: GET STATUS 1.3.1

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 44 | 00 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

#### Expected sequence 1.4 (GET STATUS, EPS bearer with APN different from default APN)

| Step | Direction  | MESSAGE / Action   | Comments  |
|------|------------|--|---|
| 1    | UICC → ME  | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL<br>6.3.1                                      | See initial conditions  |
| 2    | ME → UICC  | FETCH  |   |
| 3    | UICC → ME  | PROACTIVE COMMAND: OPEN<br>CHANNEL 6.3.1   |   |
| 4    | ME → E-USS | PDN CONNECTIVITY REQUEST   | [The PDN CONNECTIVITY REQUEST shall<br>contain the APN "Test12.rs"] |
| 5    | E-USS → ME | ACTIVATE EPS BEARER<br>CONTEXT REQUEST   | [The E-UTRAN parameters are used]                                   |
| 6    | ME → E-USS | ACTIVATE DEFAULT EPS<br>BEARER CONTEXT ACCEPT  |   |
| 7    | ME → UICC  | TERMINAL RESPONSE: OPEN<br>CHANNEL 6.1.1   | [Command performed successfully]                                    |
| 8    | UICC → ME  | PROACTIVE COMMAND<br>PENDING: GET CHANNEL<br>STATUS 1.1.1                                |   |
| 9    | ME → UICC  | FETCH  |   |
| 10   | UICC → ME  | PROACTIVE COMMAND: GET<br>STATUS 1.1.1   |   |
| 11   | ME → UICC  | TERMINAL RESPONSE GET<br>STATUS 1.4.1 A<br>Or<br>TERMINAL RESPONSE: GET<br>STATUS 1.4.1B | [Command performed successfully]                                    |

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 6.1.1

Same as TERMINAL RESPONSE: OPEN CHANNEL 6.1.1 in clause 27.22.4.27.6.4.

PROACTIVE COMMAND: GET STATUS 1.1.1

Same as PROACTIVE COMMAND:GET STATUS from sequence 1.1

TERMINAL RESPONSE: GET STATUS 1.4.1A

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Channel status

Channel status: Channel 1 open, link established or PDP context activated

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 44 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B8 | 02 | 81 | 00 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: GET STATUS 1.4.1B

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Channel status

Channel 1 status: Channel identifier 1 open, Link established or PDP context activated  
 Channel 2 status: Channel identifier 2, Link not established or PDP context not activated  
 :  
 :  
 Channel n status: Channel identifier n, Link not established or PDP context not activated

The number of channel status data objects shall be same as the number of channels(n) supported by the ME

Coding:

|          |  |    |    |    |    |    |    |    |    |    |    |    |
|----------|--|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81   | 03 | 01 | 44 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
| Note     | Note: The Terminal Response shall contain as many channel status TLVs as channels are supported by the ME. The channel status TLV coding of the opened channel shall state "Link established or PDP context activated". Not more than one opened channel shall be indicated. Each other channel status TLV coding shall indicate the corresponding channel identifier and shall state "Link is not established or PDP context not activated". As an example, if the mobile supports two channels and channel 1 is opened then the corresponding channel status data objects coding would be : 'B8 02 81 00 B8 02 02 00'. |    |    |    |    |    |    |    |    |    |    |    |

**Expected sequence 1.5 (GET STATUS, EPS bearer with APN different from default APN, after a link dropped)**

| Step | Direction  | MESSAGE / Action   | Comments   |
|------|------------|--|--|
| 1    | UICC → ME  | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1   |  |
| 2    | ME → UICC  | FETCH  |  |
| 3    | UICC → ME  | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1   |  |
| 4    | ME → UICC  | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1   | [Command performed successfully]                                 |
| 5    | UICC → ME  | PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.3.1  | See initial conditions   |
| 6    | ME → UICC  | FETCH  |  |
| 7    | UICC → ME  | PROACTIVE COMMAND: OPEN CHANNEL 6.3.1  |  |
| 8    | ME → E-USS | PDN CONNECTIVITY REQUEST   | [The PDN CONNECTIVITY REQUEST shall contain the APN "Test12.rs"] |
| 9    | E-USS → ME | ACTIVATE EPS BEARER CONTEXT REQUEST  | [The E-UTRAN parameters are used]                                |
| 10   | ME → E-USS | ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT   |  |
| 11   | ME → UICC  | TERMINAL RESPONSE: OPEN CHANNEL 6.1.1  | [Command performed successfully]                                 |
| 12   | E-USS → ME | DEACTIVATE EPS BEARER CONTEXT REQUEST  | [Cause: #38 network failure]                                     |
| 12a  | ME → E-USS | DEACTIVATE EPS BEARER CONTEXT ACCEPT   |  |
| 13   | ME → UICC  | ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1  | [Link dropped]   |
| 14   | UICC → ME  | PROACTIVE COMMAND PENDING: GET STATUS 1.3.1  |  |
| 15   | ME → UICC  | FETCH  |  |
| 16   | UICC → ME  | PROACTIVE COMMAND: GET STATUS 1.3.1  |  |
| 17   | ME → UICC  | TERMINAL RESPONSE: GET STATUS 1.3.1A<br>Or<br>TERMINAL RESPONSE: GET STATUS 1.3.1B<br>Or<br>TERMINAL RESPONSE: GET STATUS 1.3.1C<br>Or<br>TERMINAL RESPONSE: GET STATUS 1.3.1D<br>Or<br>TERMINAL RESPONSE: GET STATUS 1.3.1E | [Command performed successfully]                                 |

**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 6.1.1**

Same as TERMINAL RESPONSE: OPEN CHANNEL 6.1.1 in clause 27.22.4.27.6.4.

**PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1**

Logically:

Command details

Command number: 1  
Command type: SET UP EVENT LIST  
Command qualifier: '00'

Device identities

Source device: UICC  
Destination device: ME

Event list

Event 1: Channel Status

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 |
|          | 99 | 01 | 0A |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1

Logically:

Event list

Event list: Channel Status

Device identities

Source device: ME  
 Destination device: UICC

Channel status

Channel status: Channel 1, link dropped

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0B | 99 | 01 | 0A | 82 | 02 | 82 | 81 | B8 | 02 | 01 |
|          | 05 |    |    |    |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: GET STATUS 1.3.1

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 44 | 00 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

TERMINAL RESPONSE: GET STATUS 1.3.1A

Same as TERMINAL RESPONSE: GET STATUS 1.1.1A

TERMINAL RESPONSE: GET STATUS 1.3.1B

Same as TERMINAL RESPONSE: GET STATUS 1.1.1B

TERMINAL RESPONSE: GET STATUS 1.3.1C

Same as TERMINAL RESPONSE: GET STATUS 1.1.1C

TERMINAL RESPONSE: GET STATUS 1.3.1D

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Channel status

Channel status: Channel 1, link dropped

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 44 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B8 | 02 | 01 | 05 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: GET STATUS 1.3.1E

Logically:

Command details

Command number: 1  
 Command type: GET STATUS  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Channel status

Channel 1 status: Channel identifier 1, link dropped

Channel 2 status: Channel identifier 2, Link not established or PDP context not activated

:  
 :

Channel n status: Channel identifier n, Link not established or PDP context not activated

The number of channel status data objects shall be same as the number of channels(n) supported by the ME

Coding:

|          |  |    |    |    |      |    |    |    |    |    |    |    |
|----------|--|----|----|----|------|----|----|----|----|----|----|----|
| BER-TLV: | 81   | 03 | 01 | 44 | 00   | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B8   | 02 | 01 | 05 | Note |    |    |    |    |    |    |    |
| Note:    | The Terminal Response shall contain as many channel status TLVs as channels are supported by the ME. Each channel status TLV coding except that one for which the link was dropped by the SS shall indicate the corresponding channel identifier and shall state "Link not established or PDP context not activated". As an example, if the mobile supports two channels then the corresponding channel status data objects coding would be : 'B8 02 01 05 B8 02 02 00'. |    |    |    |      |    |    |    |    |    |    |    |

### 27.22.4.31.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.5.

## 27.22.5 Data Download to UICC

### 27.22.5.1 SMS-PP Data Download

#### 27.22.5.1.1 Definition and applicability

See clause 3.2.2.

#### 27.22.5.1.2 Conformance requirement

The ME shall support the Proactive UICC: SMS-PP Data Download facility as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 7.1, clause 8.1, clause 8.7, clause 8.13 and clause 11.
- TS 31.115 [28] clause 4.
- TS 23.038 [7] clause 4..

#### 27.22.5.1.3 Test purpose

To verify that the ME transparently passes the "data download via SMS Point-to-point" messages to the UICC.

To verify that the ME returns the RP-ACK message back to the USS, if the UICC responds with '90 00' or '91 XX'.

To verify that the ME returns the RP-ERROR message back to the system Simulator, if the UICC responds with '62 XX' or '63 XX'.

To verify that the ME returns the response data from the UICC back to the USS in the TP-User-Data element of the RP-ACK message, if the UICC returns response data'.

#### 27.22.5.1.4 Method of Test

##### 27.22.5.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and connected to the USS.

The "data download via SMS-PP" service is available in the USIM Service Table.

## 27.22.5.1.4.2 Procedure

**Expected Sequence 1.1 (Void)****Expected Sequence 1.2 (Void)****Expected Sequence 1.3 (Void)****Expected Sequence 1.4 (void)****Expected Sequence 1.5 (void)****Expected Sequence 1.6 (Void)****Expected Sequence 1.7 (Void)****Expected Sequence 1.8 (Void)****Expected Sequence 1.9 (SMS-PP Data Download over CS, UTRAN/GERAN)**

Perform the "CS related procedure 1" and continue with "Generic Test Procedure 1 (SMS-PP Data Download)" as defined in this clause 27.22.5.3.4.2 as "Expected Sequence 1.9" with the following parameters:

- Used Network Simulator (NWS): USS (UMTS System Simulator or System Simulator)
- CS is used to send and receive short messages
- ME supports UTRAN or GERAN

**CS related procedure:**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | USER → ME | The ME is switched on  | ME will perform Profile Download and USIM initialisation |
| 2    | ME → NWS  | ME performs regular network registration.  |  |
| 3    |           | CONTINUE WITH STEP 4 Generic Test Procedure 1 (SMS-PP Data Download) in clause 27.22.5.3.4.2 |  |

## 27.22.5.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.9.

## 27.22.5.2 Cell Broadcast Data Download

## 27.22.5.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.5.2.2 Conformance requirement

The ME shall support the Proactive UICC: Cell Broadcast Data Download facility as defined in:

- TS 31.111 [15] clause 5, clause 7.1.2, clause 8.5, clause 8.7 and clause 11.
- TS 31.115 [28] clause 5.
- TS 23.038 [7] clause 5.



27.22.5.2.3 Test purpose

To verify that the ME transparently passes the "data download via Cell Broadcast" messages to the UICC, which contain a message identifier found in EF<sub>CBMID</sub>.

27.22.5.2.4 Method of Test

27.22.5.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table. The elementary files are coded as Toolkit default with the following exception:

EF PL shall contain an entry indicating "English".

A USS setting up only a GERAN or PCS 1900 cell shall be used for Expected sequence 1.1, 1.7 and 1.3.

A USS setting up only a UTRAN cell shall be used on and expected sequence 1.4, 1.5 and 1.6.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

27.22.5.2.4.2 Procedure

**Expected Sequence 1.1 (Cell Broadcast Data Download (GSM), ENVELOPE(CELL BROADCAST DOWNLOAD), ME does not display message)**

| Step | Direction | MESSAGE / Action                       | Comments                   |
|------|-----------|--|----------------------------|
| 1    | USS → ME  | CELL BROADCAST 1.1                     | Message identifier '10 01' |
| 2    | ME → UICC | ENVELOPE (CELL BROADCAST DOWNLOAD) 1.1 |                            |
| 3    | UICC → ME | SW1, SW2 '90 00'                       |                            |

Cell Broadcast Message 1.1

Logically:

Message Content

- Serial Number
- Geographical scope: Cell wide, normal display mode
- Message code: 1
- Update number: 1
- Message Identifier: "1001"
- Data coding Scheme
- Message Coding: English, language using the GSM 7 bit default alphabet
- Page Parameter
- Total number of pages: 1
- Page number: 1
- Content of message: "Cell Broadcast "..

Coding:

| Coding | C0 | 11 | 10 | 01 | 01 | 11 | C3 | 32 | 9B | 0D | 12 | CA |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
|        | DF | 61 | F2 | 38 | 3C | A7 | 83 | 40 | 20 | 10 | 08 | 04 |
|        | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 | 10 |
|        | 08 | 04 | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 |
|        | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 |
|        | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 | 10 | 08 |
|        | 04 | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 |
|        | 10 | 08 | 04 | 02 |    |    |    |    |    |    |    |    |

ENVELOPE: CELL BROADCAST DOWNLOAD 1.1

Logically:

## Cell Broadcast Download

Device identities  
 Source device: Network  
 Destination device: UICC

## Cell Broadcast page

Serial Number  
 Geographical scope: Cell wide, normal display mode  
 Message code: 1  
 Update number: 1  
 Message Identifier: "1001"  
 Data coding Scheme  
 Message Coding: English, language using the GSM 7 bit default alphabet  
 Page Parameter  
 Number of pages: 1  
 Page number: 1  
 Content of message: "Cell Broadcast "..

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D2 | 5E | 82 | 02 | 83 | 81 | 8C | 58 | C0 | 11 | 10 | 01 |
|          | 01 | 11 | C3 | 32 | 9B | 0D | 12 | CA | DF | 61 | F2 | 38 |
|          | 3C | A7 | 83 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 |
|          | 10 | 08 | 04 | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 |
|          | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 | 10 | 08 | 04 |
|          | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 | 10 |
|          | 08 | 04 | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 |
|          | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 |

**Expected Sequence 1.2 (void)****Expected Sequence 1.3 (Cell Broadcast (GSM), ME may display the message)**

| Step | Direction | MESSAGE / Action  | Comments  |
|------|-----------|---|---|
| 1    | USS → ME  | CELL BROADCAST 1.2  | Message identifier '03 E7'                          |
| 2a   | ME → USER | ME may display the message  |   |
| 2b   | ME → UICC | ME shall not download the CB message to the UICC using ENVELOPE (CELL BROADCAST DOWNLOAD)       |   |
| 3    | USER → ME | The user shall use a MMI dependent procedure to initiate the display of the received CB message | [only if message has not been displayed in step 2a] |
| 4    | ME → USER | ME displays the message   | [only if message has not been displayed in step 2a] |

## Cell Broadcast Message 1.2

Logically:

## Message Content

Serial Number  
 Geographical scope: Cell wide, normal display mode  
 Message code: 1  
 Update number: 1  
 Message Identifier: "03E7"  
 Data coding Scheme  
 Message Coding: English, language using the GSM 7 bit default alphabet  
 Page Parameter  
 Total number of pages: 1  
 Page number: 1  
 Content of message: "Cell Broadcast".

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | C0 | 11 | 03 | E7 | 01 | 11 | C3 | 32 | 9B | 0D | 12 | CA |
|        | DF | 61 | F2 | 38 | 3C | A7 | 83 | 40 | 20 | 10 | 08 | 04 |
|        | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 | 10 |
|        | 08 | 04 | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 |
|        | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 |
|        | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 | 10 | 08 |
|        | 04 | 02 | 81 | 40 | 20 | 10 | 08 | 04 | 02 | 81 | 40 | 20 |
|        | 10 | 08 | 04 | 02 |    |    |    |    |    |    |    |    |

**Expected Sequence 1.4 ( Cell Broadcast (UMTS), ENVELOPE (CELL BROADCAST DOWNLOAD), ME does not display message)**

TBD

**Expected Sequence 1.5 ( Cell Broadcast (UMTS), ENVELOPE (CELL BROADCAST DOWNLOAD), FETCH, MORE TIME, ME does not display message)**

TBD

**Expected Sequence 1.6 (Cell Broadcast (UMTS), ME displays message)**

TBD

**Expected Sequence 1.7 (Cell Broadcast (GSM), ENVELOPE(CELL BROADCAST DATA DOWNLOAD), FETCH, MORE TIME, ME does not display message, User Data Header Payload)**

| Step | Direction | MESSAGE / Action                         | Comments                   |
|------|-----------|--|----------------------------|
| 1    | USS → ME  | CELL BROADCAST Message 1.7               | Message identifier '10 01' |
| 2    | ME → UICC | ENVELOPE (CELL BROADCAST DOWNLOAD) 1.7   |                            |
| 3    | UICC → ME | PROACTIVE COMMAND PENDING: MORE TIME 1.2 | SW1/SW2 '61 0B'            |
| 4    | ME → UICC | FETCH 1.2                                |                            |
| 5    | UICC → ME | PROACTIVE COMMAND:MORE TIME 1.2          |                            |
| 6    | ME → UICC | TERMINAL RESPONSE: MORE TIME 1.2         |                            |
| 7    | UICC → ME | SW1/SW2 '90 00'                          | UICC session ended         |

CELL BROADCAST Message 1.7

Logically:

Message Content

Serial Number

Geographical scope: Cell wide, normal display mode

Message code: 1

Update number: 1

Message Identifier: "1001"

Data coding Scheme

Message Coding: 8 bit data

Message class: Class 2 (U)SIM specific message

Page Parameter

Total number of pages: 1

Page number: 1

Secured User Header (Content of message)

TP-UDHL 2

IEI (U)SIM Toolkit Security Headers  
 IEIL 0  
 Command Packet Length: 77  
 Command Header Identifier: 0  
 Command Header Length: 13  
 Security Parameter Indicator: No RC, CC or DS and No PoR reply to the Sending Entity  
 Ciphering Key Identifier: Algorithm known implicitly by both entities  
 Key Identifier: Algorithm known implicitly by both entities  
 Toolkit Application Reference: Proprietary Toolkit Application  
 Counter: 1  
 Padding Counter: 0 (no padding is necessary)  
 Secure Data: 62 octets set to "DC" (dummy data)

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | C0 | 11 | 10 | 01 | 96 | 11 | 02 | 70 | 00 | 00 | 4D | 00 |
|        | 0D | 00 | 00 | 00 | 00 | BF | FF | 00 | 00 | 00 | 00 | 00 |
|        | 01 | 00 | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC |
|        | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC |
|        | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC |
|        | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC |
|        | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC |
|        | DC | DC | DC | DC |    |    |    |    |    |    |    |    |

#### ENVELOPE: CELL BROADCAST DOWNLOAD 1.7

Logically:

##### Cell Broadcast Download

Device identities  
 Source device: Network  
 Destination device: UICC

##### Cell Broadcast page

Serial Number  
 Geographical scope: Cell wide, normal display mode  
 Message code: 1  
 Update number: 1  
 Message Identifier: "1001"  
 Data coding Scheme  
 Message Coding: 8 bit data (Message with User Data Header (UDH) structure)  
 Message class: Class 2 (U)SIM specific message  
 Page Parameter  
 Number of pages: 1  
 Page number: 1

##### Secured User Header (Content of message)

TP-UDHL 2  
 IEI (U)SIM Toolkit Security Headers  
 IEIL 0  
 Command Packet Length: 77  
 Command Header Identifier: 0  
 Command Header Length: 13  
 Security Parameter Indicator: No RC, CC or DS and No PoR reply to the Sending Entity  
 Ciphering Key Identifier: Algorithm known implicitly by both entities  
 Key Identifier: Algorithm known implicitly by both entities  
 Toolkit Application Reference: Proprietary Toolkit Application  
 Counter: 1  
 Padding Counter: 0 (no padding is necessary)  
 Secure Data: 62 octets set to "DC" (dummy data)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D2 | 5E | 82 | 02 | 83 | 81 | 8C | 58 | C0 | 11 | 10 | 01 |
|          | 96 | 11 | 02 | 70 | 00 | 00 | 4D | 00 | 0D | 00 | 00 | 00 |
|          | 00 | BF | FF | 00 | 00 | 00 | 00 | 00 | 01 | 00 | DC | DC |
|          | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC |
|          | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC |
|          | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC |
|          | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC |
|          | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC | DC |

#### PROACTIVE COMMAND: MORE TIME 1.2

Logically:

##### Command details

Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"

##### Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 02 | 00 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

#### TERMINAL RESPONSE: MORE TIME 1.2

Logically:

##### Command details

Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"

##### Device identities

Source device: ME  
 Destination device: UICC

##### Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 02 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.5.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.7.

#### 27.22.5.3 SMS-PP Data Download over IMS

##### 27.22.5.3.1 Definition and applicability

See clause 3.2.2.

For IMS: That the UE correctly implemented the role of an SMS-over-IP receiver is tested in clause 18.2 of TS 34.229-1 [36].

### 27.22.5.3.2 Conformance requirement

The ME shall support the Proactive UICC: SMS-PP Data Download facility for SMS over IP as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 7.1, clause 8.1, clause 8.7, clause 8.13 and clause 11.
- TS 31.115 [28] clause 4.
- TS 23.038 [7] clause 4.
- TS 34.229 [36], Annexes C.2, C.17 and C.18.
- TS 24.341 [37], clause 5.2.3.4.

### 27.22.5.3.3 Test purpose

To verify that the ME transparently passes the "data download via SMS Point-to-point" messages which have been received over IMS to the UICC.

To verify that the ME returns the RP-ACK message back to the E-USS/USS, if the UICC responds with '90 00' or '91 XX'. In case of IMS the RP-ACK message is contained in the SIP MESSAGE for the SM delivery report.

To verify that the ME returns the RP-ERROR message in the SIP MESSAGE for the SM delivery report to the E-USS/USS, if the UICC responds with '62 XX' or '63 XX'. In case of IMS the RP-ERROR message is contained in the SIP MESSAGE for the SM delivery report.

To verify that the ME returns available response data from the UICC in the TP-User-Data element of the RP-ACK message back to the E-USS/USS. In case of IMS the RP-ACK message is contained in the SIP MESSAGE for the SM delivery report.

### 27.22.5.3.4 Method of Test

#### 27.22.5.3.4.1 Initial conditions

The ME is connected to the USIM Simulator. The elementary files are coded as defined for the E-UTRAN/EPC ISIM-UICC in clause 27.22.2C.

For sequence 3.1 the ME is additionally connected to the E-USS.

For sequence 3.2 the ME is additionally connected to the USS.

#### 27.22.5.3.4.2 Procedure

#### **Expected Sequence 3.1 (SMS-PP Data Download over IMS, E-UTRAN)**

Perform the "IMS related procedure 1" and continue with "Generic Test Procedure 1 (SMS-PP Data Download)" as defined in this clause as "Expected Sequence 3.1" with the following parameters:

- a) Used Network Simulator (NWS): E-USS
  - SMS-over-IP is used to send and receive short messages
  - ME supports eFDD or eTDD and SMS-over-IP

#### **Expected Sequence 3.2 (SMS-PP Data Download over IMS, UTRAN)**

Perform the "IMS related procedure 1" and continue with "Generic Test Procedure 1 (SMS-PP Data Download)" as defined in this clause as "Expected Sequence 3.2" with the following parameters:

- Used Network Simulator (NWS): USS (UMTS System Simulator only)

- SMS-over-IP is used to send and receive short messages
- ME supports UTRAN

**IMS related procedure 1:**

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | USER → ME | The ME is switched on  | ME will perform Profile Download, USIM and ISIM initialisation   |
| 2    | ME → NWS  | ME activates the required bearer, discovers P-CSCF and registers with the values from the ISIM to IMS services | For E-UTRAN:<br>The EPS bearer context activation according to the procedures defined in TS 34.229-1 [36], Annex C.2 and C.18 is performed<br><br>For UTRAN:<br>For SMS-over-IP a PDP context activation according to the procedures defined in TS 34.229-1 [36], Annex C.2 and C.17 is performed. |
| 3    |           | CONTINUE WITH STEP 4 Generic Test Procedure 1 (SMS-PP Data Download)   |  |

**Generic Test Procedure 1 (SMS-PP Data Download)**

| Step | Direction | MESSAGE / Action   | Comments               |
|------|-----------|--|------------------------|
| 4    | NWS → ME  | SMS-PP Data Download Message 3.1.1   | See Note 1.            |
| 5    | ME → USER | The ME shall not display the message or alert the user of a short message waiting.   |                        |
| 6    | ME → UICC | ENVELOPE: SMS-PP DOWNLOAD 3.1.1  |                        |
| 7    | UICC → ME | SMS-PP Data Download UICC Acknowledgement 3.1.1  | [SW1 / SW2 of '90 00'] |
| 8    | ME → NWS  | SMS-PP Data Download UICC Acknowledgement 3.1.1 in the TP-User-Data element of the RP-ACK message. The values of protocol identifier and data coding scheme in RP-ACK shall be as in the original message. | See Note 2.            |
| 9    | NWS → ME  | SMS-PP Data Download Message 3.1.2   | See Note 1.            |
| 10   | ME → USER | The ME shall not display the message or alert the user of a short message waiting  |                        |
| 11   | ME → UICC | ENVELOPE: SMS-PP DOWNLOAD 3.1.2  | [SW1 / SW2 of '91 0B'] |
| 12   | UICC → ME | PROACTIVE COMMAND PENDING: MORE TIME 3.1.1   |                        |
| 13   | ME → NWS  | RP-ACK   | See Note 2.            |
| 14   | ME → UICC | FETCH  |                        |
| 15   | UICC → ME | PROACTIVE COMMAND: MORE TIME 3.1.1   |                        |
| 16   | ME → UICC | TERMINAL RESPONSE: MORE TIME 3.1.1   |                        |
| 17   | UICC → ME | PROACTIVE UICC SESSION ENDED   |                        |
| 18   | NWS → ME  | SMS-PP Data Download Message 3.1.3   | See Note 1.            |
| 19   | ME        | The ME shall not display the message or alert the user of a short message waiting  |                        |



|  |           |  |                                   |
|--|-----------|--|-----------------------------------|
| 20   | ME → UICC | ENVELOPE: SMS-PP<br>DOWNLOAD 3.1.3   |                                   |
| 21   | UICC → ME | SW1 / SW2 of '90 00'   |                                   |
| 22   | ME → NWS  | RP-ACK   | See Note 2.                       |
| 23   | NWS → ME  | SMS-PP Data Download Message<br>3.1.1  | See Note 1.                       |
| 24   | ME → USER | The ME shall not display the<br>message or alert the user of a<br>short message waiting.   |                                   |
| 25   | ME → UICC | ENVELOPE: SMS-PP<br>DOWNLOAD 3.1.1   | [SW1 / SW2 of '62 xx' or '63 xx'] |
| 26   | UICC → ME | SIP MESSAGE with SMS-PP Data<br>Download UICC<br>Acknowledgement 3.1.4 in the<br>message body of MESSAGE   |                                   |
| 27   | ME → UICC | Retrieve RP-Error information<br>provided by the USIM  |                                   |
| 28   | ME → NWS  | SMS-PP Data Download UICC<br>Acknowledgement 3.1.4 in the TP-<br>User-Data element of the RP-<br>ERROR message. The values of<br>protocol identifier and data coding<br>scheme in RP-ERROR shall be as<br>in the original message. | See Note 3.                       |
| 29   | NWS → ME  | SMS-PP Data Download Message<br>3.1.5  | See Note 1.                       |
| 30   | ME        | The ME shall not display the<br>message or alert the user of a<br>short message waiting  |                                   |
| 31   | ME → UICC | ENVELOPE: SMS-PP<br>DOWNLOAD 3.1.5   |                                   |
| 32   | UICC → ME | SW1 / SW2 of '90 00'   |                                   |
| 33   | ME → NWS  | RP-ACK   | See Note 2.                       |
| 34   | USER → ME | The ME is switched off   |                                   |
| Note 1: In case of IMS the SMS-PP Data Download Message is contained in the message body of the SIP MESSAGE. |           |  |                                   |
| Note 2: In case of IMS the RP-ACK message is contained in the message body of the SIP MESSAGE.               |           |  |                                   |
| Note 3: In case of IMS the RP-ERROR message is contained in the message body of the SIP MESSAGE.             |           |  |                                   |

## SMS-PP (Data Download) Message 3.1.1

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 "TestMessage 1"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 04 | 04 | 91 | 21 | 43 | 7F | 16 | 89 | 10 | 10 | 00 | 00 |
|        | 00 | 00 | 0D | 54 | 65 | 73 | 74 | 4D | 65 | 73 | 73 | 61 |
|        | 67 | 65 | 20 | 31 |    |    |    |    |    |    |    |    |

ENVELOPE: SMS-PP DOWNLOAD 3.1.1

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 "TestMessage 1"

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 | 54 | 65 |
|          | 73 | 74 | 4D | 65 | 73 | 73 | 61 | 67 | 65 | 20 | 31 |    |

SMS-PP Data Download UICC Acknowledgement 3.1.1

|        |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|
| Coding | 44 | 61 | 74 | 61 | 20 | 41 | 63 | 6B |
|--------|----|----|----|----|----|----|----|----|

SMS-PP (Data Download) Message 3.1.2

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 "2143"  
 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 "TestMessage 2"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 04 | 04 | 91 | 12 | 34 | 7F | 16 | 89 | 10 | 10 | 00 | 00 |
|        | 00 | 00 | 0D | 54 | 65 | 73 | 74 | 4D | 65 | 73 | 73 | 61 |
|        | 67 | 65 | 20 | 32 |    |    |    |    |    |    |    |    |

#### ENVELOPE: SMS-PP DOWNLOAD 3.1.2

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 "2143"  
 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 "TestMessage 2"

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 | 12 | 34 |
|          | 7F | 16 | 89 | 10 | 10 | 00 | 00 | 00 | 00 | 0D | 54 | 65 |
|          | 73 | 74 | 4D | 65 | 73 | 73 | 61 | 67 | 65 | 20 | 32 |    |

## PROACTIVE COMMAND: MORE TIME 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"

## Device identities

Source device: UICC  
 Destination device: ME

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 09 | 81 | 03 | 01 | 02 | 00 | 82 | 02 | 81 | 82 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

## TERMINAL RESPONSE: MORE TIME 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: MORE TIME  
 Command qualifier: "00"

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 02 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## SMS-PP (Data Download) Message 3.1.3

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  | "2233"  |
| TP-PID         | (U)SIM Data download                            |
| TP-DCS         |   |
| Coding Group   | Data Coding / Message Class                     |
| Message Coding | 8 bit data                                      |
| Message Class  | Class 2 (U)SIM Specific Message                 |
| TP-SCTS:       | 01/01/98 00:00:00 +0                            |

TP-UDL 13  
 TP-UD "TestMessage 3"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 04 | 04 | 91 | 22 | 33 | 7F | F6 | 89 | 10 | 10 | 00 | 00 |
|        | 00 | 00 | 0D | 54 | 65 | 73 | 74 | 4D | 65 | 73 | 73 | 61 |
|        | 67 | 65 | 20 | 33 |    |    |    |    |    |    |    |    |

#### ENVELOPE: SMS-PP DOWNLOAD 3.1.3

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 "2233"  
 TP-PID (U)SIM Data download  
 TP-DCS  
 Coding Group Data Coding / Message Class  
 Message Coding 8 bit data  
 Message Class Class 2 (U)SIM Specific Message  
 TP-SCTS: 01/01/98 00:00:00 +0  
 TP-UDL 13  
 TP-UD "TestMessage 3"

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 | 22 | 33 |
|          | 7F | F6 | 89 | 10 | 10 | 00 | 00 | 00 | 00 | 0D | 54 | 65 |
|          | 73 | 74 | 4D | 65 | 73 | 73 | 61 | 67 | 65 | 20 | 32 |    |

#### SMS-PP Data Download UICC Acknowledgement 3.1.4

|        |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|
| Coding | 44 | 61 | 74 | 61 | 20 | 45 | 72 | 72 | 65 | 72 |
|--------|----|----|----|----|----|----|----|----|----|----|

#### SMS-PP (Data Download) Message 3.1.5

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 user data header and a 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 Data Coding / Message Class  
 Message Coding 8 bit data  
 Message Class Class 2 (U)SIM Specific Message  
 TP-SCTS: 01/01/98 00:00:00 +0  
 TP-UDL 30  
 TP-UD  
 TP-UDHL 2  
 IEI (U)SIM Toolkit Security Headers  
 IEIL 0  
 SM (8 bit data)  
 Command Packet Length: 25  
 Command Header Identifier: 0  
 Command Header Length: 13  
 Security Parameter Indicator: No RC, CC or DS and No PoR reply to the Sending Entity  
 Ciphering Key Identifier: Algorithm known implicitly by both entities  
 Key Identifier: Algorithm known implicitly by both entities  
 Toolkit Application Reference: Proprietary Toolkit Application  
 Counter: 1  
 Padding Counter: 0 (no padding is necessary)  
 Secure Data: 10 octets set to 'DC' (dummy data)

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 44 | 04 | 91 | 21 | 43 | 7F | F6 | 89 | 10 | 10 | 00 | 00 |
|        | 00 | 00 | 1E | 02 | 70 | 00 | 00 | 19 | 00 | 0D | 00 | 00 |
|        | 00 | 00 | BF | FF | 00 | 00 | 00 | 00 | 00 | 01 | 00 | DC |
|        | DC | DC | DC | DC | DC | DC | DC | DC | DC |    |    |    |

ENVELOPE: SMS-PP DOWNLOAD 3.1.5

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 user data header and a 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                   | Data Coding / Message Class                            |
| Message Coding                 | 8 bit data   |
| Message Class                  | Class 2 (U)SIM Specific Message                        |
| TP-SCTS:                       | 01/01/98 00:00:00 +0                                   |
| TP-UDL                         | 30   |
| TP-UD                          |  |
| TP-UDHL                        | 2  |
| IEI                            | (U)SIM Toolkit Security Headers                        |
| IEIL                           | 0  |
| SM (8 bit data)                |  |
| Command Packet Length:         | 25   |
| Command Header Identifier:     | 0  |
| Command Header Length:         | 13   |
| Security Parameter Indicator:  | No RC, CC or DS and No PoR reply to the Sending Entity |
| Ciphering Key Identifier:      | Algorithm known implicitly by both entities            |
| Key Identifier:                | Algorithm known implicitly by both entities            |
| Toolkit Application Reference: | Proprietary Toolkit Application                        |
| Counter:                       | 1  |
| Padding Counter:               | 0 (no padding is necessary)                            |
| Secure Data:                   | 10 octets set to 'DC' (dummy data)                     |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D1 | 3E | 82 | 02 | 83 | 81 | 06 | 09 | 91 | 11 | 22 | 33 |
|          | 44 | 55 | 66 | 77 | F8 | 8B | 2D | 44 | 04 | 91 | 21 | 43 |
|          | 7F | F6 | 89 | 10 | 10 | 00 | 00 | 00 | 00 | 1E | 02 | 70 |
|          | 00 | 00 | 19 | 00 | 0D | 00 | 00 | 00 | 00 | BF | FF | 00 |
|          | 00 | 00 | 00 | 00 | 01 | 00 | DC | DC | DC | DC | DC | DC |
|          | DC | DC | DC | DC |    |    |    |    |    |    |    |    |

### 27.22.5.3.5 Test requirement

The ME supporting eFDD or eTDD shall operate in the manner defined in expected sequence 3.1.

The ME supporting UTRAN shall operate in the manner defined in expected sequence 3.2.

### 27.22.5.4 SMS-PP Data Download over SGs in E-UTRAN

#### 27.22.5.4.1 Definition and applicability

See clause 3.2.2.

#### 27.22.5.4.2 Conformance requirement

The ME shall support the Proactive UICC: SMS-PP Data Download facility for SMS over SGs as defined in the following technical specifications:

- TS 31.111 [15] clause 5, clause 7.1, clause 8.1, clause 8.7, clause 8.13 and clause 11.
- TS 31.115 [28] clause 4.
- TS 23.038 [7] clause 4.
- TS 24.301 [32] clause 5.6.3.1, 5.6.3.3 and 9.9.3.22

#### 27.22.5.4.3 Test purpose

To verify that the ME transparently passes the "data download via SMS Point-to-point" messages to the UICC.

To verify that the ME returns the RP-ACK message back to the USS, if the UICC responds with '90 00' or '91 XX'.

To verify that the ME returns the RP-ERROR message back to the system Simulator, if the UICC responds with '62 XX' or '63 XX'.

To verify that the ME returns the response data from the UICC back to the USS in the TP-User-Data element of the RP-ACK message, if the UICC returns response data'.

#### 27.22.5.4.4 Method of Test

##### 27.22.5.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and connected to the E-USS.

The "data download via SMS-PP" service is available in the USIM Service Table.

##### 27.22.5.4.4.2 Procedure

#### Expected Sequence 4.1 (SMS-PP Data Download over SGs, E-UTRAN)

Perform the "SMS over SGs related procedure 1" and continue with "Generic Test Procedure 1 (SMS-PP Data Download)" as defined in this clause 27.22.5.3.4.2 as "Expected Sequence 4.1" with the following parameters:

- Used Network Simulator (NWS): E-USS
- SMS over SGs (DOWNLINK NAS TRANSPORT and UPLINK NAS TRANSPORT messages) is used to send and receive short messages
- ME supports eFDD or eTDD and MT SMS-over-SGs

#### SMS over SGs related procedure:

| Step | Direction | MESSAGE / Action   | Comments   |
|------|-----------|--|--|
| 1    | USER → ME | The ME is switched on  | ME will perform Profile Download and USIM initialisation                               |
| 2    | ME → NWS  | ME performs regular network registration.  | UE is afterwards in state Registered, Idle Mode (state 2) according to TS 36.508 [33]. |
| 3    |           | CONTINUE WITH STEP 4 Generic Test Procedure 1 (SMS-PP Data Download) in clause 27.22.5.3.4.2 |  |

#### 27.22.5.x.5 Test requirement

The ME shall operate in the manner defined in expected sequence 4.1.

## 27.22.6 CALL CONTROL BY USIM

### 27.22.6.1 Procedure for Mobile Originated calls

#### 27.22.6.1.1 Definition and applicability

See clause 3.2.2.

#### 27.22.6.1.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- TS 31.111 [15] clause 7.3



### 27.22.6.1.3 Test purpose

To verify that for all call set-up attempts, even those resulting from a SET UP CALL proactive UICC command, the ME shall first pass the call set-up details (dialled digits and associated parameters) to the UICC, using the ENVELOPE (CALL CONTROL).

To verify that if the UICC responds with '90 00', the ME shall set up the call with the dialled digits and other parameters as sent to the UICC.

To verify that if the UICC returns response data, the ME shall use the response data appropriately to set up the call as proposed, not set up the call, or set up a call using the data supplied by the UICC.

To verify that, in the case where the initial call set-up request results from a proactive SET UP CALL, if the call control result is "not allowed" or "allowed with modifications", the ME shall inform the UICC using TERMINAL RESPONSE "interaction with call control by UICC or MO short message control by UICC, action not allowed".

To verify that it is possible for the UICC to request the ME to set up an emergency call by supplying the number "112" as the response data.

### 27.22.6.1.4 Method of tests

#### 27.22.6.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and USS and has performed the location update procedure.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The elementary files are coded as USIM Application Toolkit default with the following exceptions:

- 1) The call control service is available in the USIM Service Table.
- 2) Only for sequence 1.9:

#### **EF<sub>ECC</sub> (Emergency Call Codes)**

Logically:

Emergency call code: "1020";  
 Emergency call code alpha identifier: empty;  
 Emergency call Service Category: RFU

|         |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|
| Coding: | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 |
| Hex     | 01 | 02 | FF | FF | FF | FF | FF | FF |

27.22.6.1.4.2 Procedure

**Expected Sequence 1.1 (CALL CONTROL BY USIM , set up call attempt by user, the USIM responds with '90 00')**

| Step | Direction | Message / Action   | Comments  |
|------|-----------|--|---|
| 1    | User → ME | Set up a call to "+01234567890123456789"                           |   |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 1.1.1A<br>Or<br>ENVELOPE CALL CONTROL 1.1.1B | [Option A shall apply for 3GPP parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | 90 00  |   |
| 4    | ME → USS  | The ME sets up the call without modification                       | [Set up call to "+01234567890123456789"   |

ENVELOPE CALL CONTROL 1.1.1A

Logically:

Device identities

Source device: ME  
Destination device: UICC

Address

TON: International  
NPI: "ISDN / telephone numbering plan" or "unknown"  
Dialling number string "01234567890123456789"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)  
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |        |        |        |    |        |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|--------|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32     | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | Note 5 | 00 |
|          | F1 | 10     | 00 | 01 | 00 | 01 | Note 6 | Note 4 |        |    |        |    |

ENVELOPE CALL CONTROL 1.1.1B

Logically:

Device identities

Source device: ME  
Destination device: UICC

Address

TON: International  
NPI: "ISDN / telephone numbering plan" or "unknown"  
Dialling number string "01234567890123456789"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

#### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

#### Coding:

|          |    |        |    |    |    |    |        |        |        |    |    |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|----|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32 | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | 07 | 00 |
|          | 11 | 10     | 00 | 01 | 00 | 01 | Note 4 |        |        |    |    |    |

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

#### Expected Sequence 1.2 (CALL CONTROL BY USIM , set up call attempt by user, allowed without modification)

| Step | Direction | Message / Action  | Comments   |
|------|-----------|---|--|
| 1    | User → ME | Set up a call to "+01234567890123456789"                            |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 1.2.1 A<br>or<br>ENVELOPE CALL CONTROL 1.2.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 1.2.1   | [Call control result: "Allowed, no modification"]  |
| 4    | ME → USS  | The ME sets up the call without modification                        | [Set up call to "+01234567890123456789"]   |

#### ENVELOPE CALL CONTROL 1.2.1A

##### Logically:

##### Device identities

Source device: ME  
 Destination device: UICC

##### Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "01234567890123456789"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Subaddress

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |        |        |        |    |        |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|--------|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32     | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | Note 5 | 00 |
|          | F1 | 10     | 00 | 01 | 00 | 01 | Note 6 | Note 4 |        |    |        |    |

## ENVELOPE CALL CONTROL 1.2.1B

Logically:

## Device identities

Source device: ME  
 Destination device: UICC

## Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "01234567890123456789"

## Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

## Subaddress

This parameter is optional. If present, the contents shall not be checked.

## Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

## Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |        |        |        |    |    |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|----|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32 | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | 07 | 00 |
|          | 11 | 10     | 00 | 01 | 00 | 01 | Note 4 |        |        |    |    |    |

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

## CALL CONTROL RESULT 1.2.1

Logically:

Call control result : '00' = Allowed, no modification

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 00 | 00 |
|----------|----|----|

**Expected Sequence 1.3A (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, allowed without modification)**

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.3.1 PENDING                       | [This test applies to MEs asking for user confirmation before sending the ENVELOPE CALL CONTROL command] |
| 2    | ME→UICC   | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.3.1                               | [Set up call to "+012340123456"]   |
| 4    | ME → USER | ME displays "+012340123456" during user confirmation phase.        |  |
| 5    | USER → ME | The user confirms the call set up                                  | [user confirmation]  |
| 6    | ME → UICC | ENVELOPE CALL CONTROL 1.3.1A<br>or<br>ENVELOPE CALL CONTROL 1.3.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]       |
| 7    | UICC → ME | CALL CONTROL RESULT 1.3.1  | [Call control result: "Allowed, no modification"]  |
| 8    | ME → USS  | The ME sets up the call without modification                       | [Set up call to "+012340123456"]   |
| 9    | ME → UICC | TERMINAL RESPONSE: SET UP CALL 1.3.1                               | [command performed successfully]   |

**Expected Sequence 1.3 B (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, allowed without modification)**

| Step | Direction | Message / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.3.1 PENDING                       | [This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command] |
| 2    | ME→UICC   | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.3.1                               | [Set up call to "+012340123456"]  |
| 4    | ME → UICC | ENVELOPE CALL CONTROL 1.3.1A<br>or<br>ENVELOPE CALL CONTROL 1.3.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]      |
| 5    | UICC → ME | CALL CONTROL RESULT 1.3.1  | [Call control result: "Allowed, no modification"]   |
| 6    | ME → USER | ME displays "+012340123456" during user confirmation phase.        |   |
| 7    | USER → ME | The user confirms the call set up                                  | [user confirmation]   |
| 8    | ME → USS  | The ME sets up the call without modification                       | [Set up call to "+012340123456"]  |
| 9    | ME → UICC | TERMINAL RESPONSE: SET UP CALL 1.3.1                               | [command performed successfully]  |

PROACTIVE COMMAND: SET UP CALL 1.3.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: Only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "+012340123456"

Address

TON: International

NPI: "ISDN / telephone numbering plan"  
 Dialling number string "012340123456"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 21 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 |
|          | 05 | 0D | 2B | 30 | 31 | 32 | 33 | 34 | 30 | 31 | 32 |
|          | 33 | 34 | 35 | 36 | 86 | 07 | 91 | 10 | 32 | 04 | 21 |
|          | 43 | 65 |    |    |    |    |    |    |    |    |    |

### ENVELOPE CALL CONTROL 1.3.1A

Logically:

#### Device identities

Source device: ME  
 Destination device: UICC

#### Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "012340123456"

#### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

#### Subaddress

This parameter is optional. If present, the contents shall not be checked.

#### Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

#### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |        |        |    |        |    |    |    |
|----------|----|--------|----|----|--------|--------|----|--------|----|----|----|
| BER-TLV: | D4 | Note 1 | 02 | 02 | 82     | 81     | 06 | 07     | 91 | 10 | 32 |
|          | 04 | 21     | 43 | 65 | Note 2 | Note 3 | 13 | Note 5 | 00 | F1 | 10 |
|          | 00 | 01     | 00 | 01 | Note 6 | Note 4 |    |        |    |    |    |

### ENVELOPE CALL CONTROL 1.3.1B

Logically:

#### Device identities

Source device: ME  
 Destination device: UICC

#### Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "012340123456"

#### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

#### Subaddress

This parameter is optional. If present, the contents shall not be checked.

#### Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

#### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |        |        |    |    |    |    |    |
|----------|----|--------|----|----|--------|--------|----|----|----|----|----|
| BER-TLV: | D4 | Note 1 | 02 | 02 | 82     | 81     | 06 | 07 | 91 | 10 | 32 |
|          | 04 | 21     | 43 | 65 | Note 2 | Note 3 | 13 | 07 | 00 | 11 | 10 |
|          | 00 | 01     | 00 | 01 | Note 4 |        |    |    |    |    |    |

Note 1: Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

### CALL CONTROL RESULT 1.3.1

Logically:

Call control result : '00' = Allowed, no modification

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 00 | 00 |
|----------|----|----|

### TERMINAL RESPONSE: SET UP CALL 1.3.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: Only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

### Expected Sequence 1.4 (CALL CONTROL BY USIM , set up call attempt by user, not allowed)

| Step | Direction | Message / Action  | Comments   |
|------|-----------|---|--|
| 1    | User → ME | Set up a call to "+01234567890123456789"                            |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 1.4.1 A<br>or<br>ENVELOPE CALL CONTROL 1.4.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 1.4.1   | [Call control result: "not Allowed"]   |
| 4    | ME → USS  | The ME does not set up the call                                     |  |

### ENVELOPE CALL CONTROL 1.4.1A

Logically:

## Device identities

Source device: ME  
 Destination device: UICC

## Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "+01234567890123456789"

## Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

## Subaddress

This parameter is optional. If present, the contents shall not be checked.

## Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

## Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

## Coding:

|          |    |        |    |    |    |    |        |        |        |    |        |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|--------|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32     | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | Note 5 | 00 |
|          | F1 | 10     | 00 | 01 | 00 | 01 | Note 6 | Note 4 |        |    |        |    |

## ENVELOPE CALL CONTROL 1.4.1B

## Logically:

## Device identities

Source device: ME  
 Destination device: UICC

## Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "+01234567890123456789"

## Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

## Subaddress

This parameter is optional. If present, the contents shall not be checked.

## Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

## Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

## Coding:

|          |    |        |    |    |    |    |        |        |        |    |    |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|----|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32 | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | 07 | 00 |
|          | 11 | 10     | 00 | 01 | 00 | 01 | Note 4 |        |        |    |    |    |

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'



Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

#### CALL CONTROL RESULT 1.4.1

Logically:

Call control result: '01' = not Allowed

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 01 | 00 |
|----------|----|----|

#### Expected Sequence 1.5A (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, not allowed)

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.5.1 PENDING                       | [This test applies to MEs asking for user confirmation before sending the ENVELOPE CALL CONTROL command] |
| 2    | ME→UICC   | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.5.1                               | [Set up call to "+012340123456"  |
| 4    | ME → USER | ME displays "+012340123456" during user confirmation phase.        |  |
| 5    | USER → ME | The user confirms the call set up                                  | [user confirmation]  |
| 6    | ME → UICC | ENVELOPE CALL CONTROL 1.5.1A<br>or<br>ENVELOPE CALL CONTROL 1.5.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]       |
| 7    | UICC → ME | CALL CONTROL RESULT 1.5.1  | [Call control result: "Not Allowed"]   |
| 8    | ME → UICC | TERMINAL RESPONSE: SET UP CALL 1.5.1                               | [Permanent Problem - Interaction with Call Control by USIM]  |
| 9    | ME → USS  | The ME does not set up the call                                    |  |

#### Expected Sequence 1.5 B (CALL CONTROL BY USIM , set up call attempt resulting from a set up call proactive command, not allowed)

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.5.1 PENDING                       | [This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command]              |
| 2    | ME→UICC   | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.5.1                               | [Set up call to "+012340123456"  |
| 4    | ME → UICC | ENVELOPE CALL CONTROL 1.5.1A<br>or<br>ENVELOPE CALL CONTROL 1.5.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]                   |
| 5    | UICC → ME | CALL CONTROL RESULT 1.5.1  | [Call control result: "Not Allowed"]<br>[No user confirmation phase because Call Control has disallowed the request] |
| 6    | ME → UICC | TERMINAL RESPONSE: SET UP CALL 1.5.1                               | [Permanent Problem - Interaction with Call Control by USIM]  |
| 7    | ME → USS  | The ME does not set up the call                                    |  |

PROACTIVE COMMAND: SET UP CALL 1.5.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: Only if not currently busy on another call  
 Device identities  
   Source device: UICC  
   Destination device: Network  
 Alpha identifier: "+012340123456"  
 Address  
   TON: International  
   NPI: "ISDN / telephone numbering plan"  
   Dialling number string "012340123456"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 21 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 |
|          | 05 | 0D | 2B | 30 | 31 | 32 | 33 | 34 | 30 | 31 | 32 |
|          | 33 | 34 | 35 | 36 | 86 | 07 | 91 | 10 | 32 | 04 | 21 |
|          | 43 | 65 |    |    |    |    |    |    |    |    |    |

### ENVELOPE CALL CONTROL 1.5.1A

Logically:

Device identities  
   Source device: ME  
   Destination device: UICC  
 Address  
   TON: International  
   NPI: "ISDN / telephone numbering plan" or "unknown"  
   Dialling number string "012340123456"  
 Capability configuration parameters 1  
   This parameter is optional. If present, the contents shall not be checked.  
 Subaddress  
   This parameter is optional. If present, the contents shall not be checked.  
 Location Information  
   MCC & MNC the mobile country and network code (00F110)  
   LAC the location Area Code (0001)  
   Cell ID Cell Identity Value (0001)  
   Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6  
 Capability configuration parameters 2  
   This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |        |        |    |        |    |    |    |
|----------|----|--------|----|----|--------|--------|----|--------|----|----|----|
| BER-TLV: | D4 | Note 1 | 02 | 02 | 82     | 81     | 06 | 07     | 91 | 10 | 32 |
|          | 04 | 21     | 43 | 65 | Note 2 | Note 3 | 13 | Note 5 | 00 | F1 | 10 |
|          | 00 | 01     | 00 | 01 | Note 6 | Note 4 |    |        |    |    |    |

### ENVELOPE CALL CONTROL 1.5.1B

Logically:

Device identities  
   Source device: ME  
   Destination device: UICC  
 Address  
   TON: International  
   NPI: "ISDN / telephone numbering plan" or "unknown"  
   Dialling number string "012340123456"  
 Capability configuration parameters 1  
   This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC the mobile country and network code (001110)

LAC the location Area Code (0001)

Cell ID Cell Identity Value (0001)

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |        |        |    |    |    |    |    |
|----------|----|--------|----|----|--------|--------|----|----|----|----|----|
| BER-TLV: | D4 | Note 1 | 02 | 02 | 82     | 81     | 06 | 07 | 91 | 10 | 32 |
|          | 04 | 21     | 43 | 65 | Note 2 | Note 3 | 13 | 07 | 00 | 11 | 10 |
|          | 00 | 01     | 00 | 01 | Note 4 |        |    |    |    |    |    |

Note 1: Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

CALL CONTROL RESULT 1.5.1

Logically:

Call control result: '01' = not Allowed

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 01 | 00 |
|----------|----|----|

TERMINAL RESPONSE: SET UP CALL 1.5.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: Only if not currently busy on another call

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Interaction with call control by USIM or MO short message control by USIM, permanent problem

Additional information: Action not allowed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 02 | 39 |
|          | 01 |    |    |    |    |    |    |    |    |    |    |    |

**Expected Sequence 1.6 (CALL CONTROL BY USIM , set up call attempt by user, allowed with modifications)**

| Step | Direction | Message / Action  | Comments   |
|------|-----------|---|--|
| 1    | User → ME | Set up a call to<br>"+01234567890123456789"                               |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL<br>1.6.1 A<br>or<br>ENVELOPE CALL CONTROL<br>1.6.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 1.6.1   | [Call control result: "Allowed with modifications", ]  |
| 4    | ME → USS  | The ME sets up the call to<br>"+010203"                                   |  |

### ENVELOPE CALL CONTROL 1.6.1A

Logically:

#### Device identities

Source device: ME  
Destination device: UICC

#### Address

TON: International  
NPI: "ISDN / telephone numbering plan" or "unknown"  
Dialling number string "01234567890123456789"

#### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

#### Subaddress

This parameter is optional. If present, the contents shall not be checked.

#### Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)  
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

#### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |        |        |        |    |        |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|--------|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32     | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | Note 5 | 00 |
|          | F1 | 10     | 00 | 01 | 00 | 01 | Note 6 | Note 4 |        |    |        |    |

### ENVELOPE CALL CONTROL 1.6.1B

Logically:

#### Device identities

Source device: ME  
Destination device: UICC

#### Address

TON: International  
NPI: "ISDN / telephone numbering plan" or "unknown"  
Dialling number string "01234567890123456789"

#### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

#### Subaddress

This parameter is optional. If present, the contents shall not be checked.

#### Location Information

MCC & MNC the mobile country and network code (001110)

LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Capability configuration parameters 2  
 This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |        |        |        |    |    |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|----|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32 | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | 07 | 00 |
|          | 11 | 10     | 00 | 01 | 00 | 01 | Note 4 |        |        |    |    |    |

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### CALL CONTROL RESULT 1.6.1

Logically:

Call control result: '02' = Allowed with modifications  
 Address  
 TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "010203"

Coding:

|          |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|
| BER-TLV: | 02 | 06 | 86 | 04 | 91 | 10 | 20 | 30 |
|----------|----|----|----|----|----|----|----|----|

#### Expected Sequence 1.7A (CALL CONTROL BY USIM, set up call attempt resulting from a set up call proactive command, allowed with modifications)

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.7.1 PENDING                       | [This test applies to MEs asking for user confirmation before sending the ENVELOPE CALL CONTROL command] |
| 2    | ME → UICC | FETCH  |  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.7.1                               | [Set up call to "+012340123456"]   |
| 4    | ME → USER | ME displays "+012340123456" during user confirmation phase.        |  |
| 5    | USER → ME | The user confirms the call set up                                  | [user confirmation]  |
| 6    | ME → UICC | ENVELOPE CALL CONTROL 1.7.1A<br>or<br>ENVELOPE CALL CONTROL 1.7.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]       |
| 7    | UICC → ME | CALL CONTROL RESULT 1.7.1  | [Call control result: "Allowed with modifications"]  |
| 8    | ME → USS  | The ME sets up the call to "+011111111111"                         |  |
| 9    | ME → UICC | TERMINAL RESPONSE: SET UP CALL 1.7.1                               | [command performed successfully]   |

**Expected Sequence 1.7 B (CALL CONTROL BY USIM, set up call attempt resulting from a set up call proactive command, allowed with modifications)**

| Step | Direction | Message / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.7.1 PENDING                       | [This test applies to MEs asking for user confirmation after sending the ENVELOPE CALL CONTROL command] |
| 2    | ME→UICC   | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 1.7.1                               | [Set up call to "+012340123456"]  |
| 4    | ME → UICC | ENVELOPE CALL CONTROL 1.7.1A<br>or<br>ENVELOPE CALL CONTROL 1.7.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]      |
| 5    | UICC → ME | CALL CONTROL RESULT 1.7.1  | [Call control result: "Allowed with modifications"]   |
| 6    | ME → USER | ME displays "+012340123456" during user confirmation phase.        |   |
| 7    | USER → ME | The user confirms the call set up                                  | [user confirmation]   |
| 8    | ME → USS  | The ME sets up the call to "+011111111111"                         | [call is set up to modified address]  |
| 9    | ME → UICC | TERMINAL RESPONSE: SET UP CALL 1.7.1                               | [command performed successfully]  |

**PROACTIVE COMMAND: SET UP CALL 1.7.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: Only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: '+012340123456'

Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "012340123456"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 21 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 |
|          | 05 | 0D | 2B | 30 | 31 | 32 | 33 | 34 | 30 | 31 | 32 |
|          | 33 | 34 | 35 | 36 | 86 | 07 | 91 | 10 | 32 | 04 | 21 |
|          | 43 | 65 |    |    |    |    |    |    |    |    |    |

**ENVELOPE CALL CONTROL 1.7.1A**

Logically:

Device identities

Source device: ME  
 Destination device: UICC

Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "012340123456"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

#### Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

#### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

#### Coding:

|          |    |        |    |    |        |        |    |        |    |    |    |
|----------|----|--------|----|----|--------|--------|----|--------|----|----|----|
| BER-TLV: | D4 | Note 1 | 02 | 02 | 82     | 81     | 06 | 07     | 91 | 10 | 32 |
|          | 04 | 21     | 43 | 65 | Note 2 | Note 3 | 13 | Note 5 | 00 | F1 | 10 |
|          | 00 | 01     | 00 | 01 | Note 6 | Note 4 |    |        |    |    |    |

### ENVELOPE CALL CONTROL 1.7.1B

#### Logically:

##### Device identities

Source device: ME  
 Destination device: UICC

##### Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "012340123456"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Subaddress

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

#### Coding:

|          |    |        |    |    |        |        |    |    |    |    |    |
|----------|----|--------|----|----|--------|--------|----|----|----|----|----|
| BER-TLV: | D4 | Note 1 | 02 | 02 | 82     | 81     | 06 | 07 | 91 | 10 | 32 |
|          | 04 | 21     | 43 | 65 | Note 2 | Note 3 | 13 | 07 | 00 | 11 | 10 |
|          | 00 | 01     | 00 | 01 | Note 4 |        |    |    |    |    |    |

Note 1: Length of BER-TLV is '16' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

### CALL CONTROL RESULT 1.7.1

#### Logically:

Call control result: '02' = Allowed with modifications

##### Address

TON: International

NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "011111111111"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 02 | 09 | 86 | 07 | 91 | 10 | 11 | 11 | 11 | 11 | 11 |
|----------|----|----|----|----|----|----|----|----|----|----|----|

TERMINAL RESPONSE: SET UP CALL 1.7.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: Only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.8 (CALL CONTROL BY USIM , set up call attempt by user, allowed with modifications: emergency call)**

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | Set up a call to "+01234567890123456789"                           |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 1.8.1A<br>or<br>ENVELOPE CALL CONTROL 1.8.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 1.8.1  | [Call control result: "Allowed with modifications"]  |
| 4    | ME → USS  | The ME sets up an emergency call;                                  |  |

ENVELOPE CALL CONTROL 1.8.1A

Logically:

Device identities

Source device: ME  
 Destination device: UICC

Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string "01234567890123456789"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.



Coding:

|          |    |        |    |    |    |    |        |        |        |    |        |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|--------|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32     | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | Note 5 | 00 |
|          | F1 | 10     | 00 | 01 | 00 | 01 | Note 6 | Note 4 |        |    |        |    |

## ENVELOPE CALL CONTROL 1.8.1B

Logically:

Device identities

Source device: ME  
Destination device: UICC

Address

TON: International  
NPI: "ISDN / telephone numbering plan" or "unknown"  
Dialling number string "01234567890123456789"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC the mobile country and network code (001110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |        |        |        |    |    |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|----|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32 | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | 07 | 00 |
|          | 11 | 10     | 00 | 01 | 00 | 01 | Note 4 |        |        |    |    |    |

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

## CALL CONTROL RESULT 1.8.1

Logically:

Call control result Allowed, with modification  
Address  
TON Unknown  
NPI "ISDN / telephone numbering plan"  
Address value "112"

Coding:

|          |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|
| BER-TLV: | 02 | 05 | 86 | 03 | 81 | 11 | F2 |
|----------|----|----|----|----|----|----|----|

**Expected Sequence 1.9 (CALL CONTROL BY USIM , set up call attempt by user, allowed with modifications: number in EF<sub>ECC</sub>)**

| Step | Direction | Message / Action  | Comments   |
|------|-----------|---|--|
| 1    | User → ME | Set up a call to "+01234567890123456789"  |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 1.9.1A or ENVELOPE CALL CONTROL 1.9.1B  | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 1.9.1   | [Call control result: "Allowed with modifications"]  |
| 4    | ME → USS  | The ME sets up call with the dialled digits "1020". The ME does not set up an emergency call, but sets up a normal call |  |

ENVELOPE CALL CONTROL 1.9.1A

Logically:

Device identities

Source device: ME  
Destination device: UICC

Address

TON: International  
NPI: "ISDN / telephone numbering plan" or "unknown"  
Dialling number string "01234567890123456789"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)  
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |        |        |        |    |        |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|--------|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32     | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | Note 5 | 00 |
|          | F1 | 10     | 00 | 01 | 00 | 01 | Note 6 | Note 4 |        |    |        |    |

ENVELOPE CALL CONTROL 1.9.1B

Logically:

Device identities

Source device: ME  
Destination device: UICC

Address

TON: International  
NPI: "ISDN / telephone numbering plan" or "unknown"  
Dialling number string "01234567890123456789"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |        |        |        |    |    |    |
|----------|----|--------|----|----|----|----|--------|--------|--------|----|----|----|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86     | 0B     | 91     | 10 | 32 | 54 |
|          | 76 | 98     | 10 | 32 | 54 | 76 | 98     | Note 2 | Note 3 | 13 | 07 | 00 |
|          | 11 | 10     | 00 | 01 | 00 | 01 | Note 4 |        |        |    |    |    |

Note 1: Length of BER-TLV is '1A' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### CALL CONTROL RESULT 1.9.1

Logically:

Call control result Allowed, with modification  
 Address  
 TON Unknown  
 NPI "ISDN / telephone numbering plan"  
 Address value "1020"

Coding:

|          |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|
| BER-TLV: | 02 | 05 | 86 | 03 | 81 | 01 | 02 |
|----------|----|----|----|----|----|----|----|

#### Expected Sequence 1.10 (CALL CONTROL BY USIM , set up call attempt by user to an emergency call)

| Step | Direction | Message / Action                               | Comments |
|------|-----------|--|----------|
| 1    | User → ME | Set up a call to "112"                         |          |
| 2    | ME → UICC | The ME does not send any ENVELOPE CALL CONTROL |          |
| 3    | ME → USS  | The ME sets up an emergency call               |          |

#### Expected Sequence 1.11 (CALL CONTROL BY USIM , set up call through call register, the USIM responds with '90 00')

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers allowed by call control in its register.

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | Set up a call to<br>"+01234567890123456789"                              |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL<br>1.1.1A<br>or<br>ENVELOPE CALL CONTROL<br>1.1.1B | [Option A shall apply for GERAN/UTRAN<br>parameters]<br>[Option B shall apply for PCS1900<br>parameters] |
| 3    | UICC → ME | 90 00  |  |
| 4    | ME → USS  | The ME sets up the call without<br>modification                          | [Set up call to "+01234567890123456789"]   |
| 5    | USER → ME | End Call.  |  |
| 6    | USER → ME | Recall the last dialled number   |  |
| 7    | ME → UICC | ENVELOPE CALL CONTROL<br>1.1.1A<br>or<br>ENVELOPE CALL CONTROL<br>1.1.1B | [Option A shall apply for GERAN/UTRAN<br>parameters]<br>[Option B shall apply for PCS1900<br>parameters] |
| 8    | UICC → ME | 90 00  |  |
| 9    | ME → USS  | The ME sets up the call without<br>modification                          | [Set up call to "+01234567890123456789"]   |
| 10   | USER → ME | End Call.  |  |

**Expected Sequence 1.12 (CALL CONTROL BY USIM , set up call through call register, allowed without modification)**

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers allowed by call control in its register.

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | Set up a call to<br>"+01234567890123456789"                              |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL<br>1.2.1A<br>or<br>ENVELOPE CALL CONTROL<br>1.2.1B | [Option A shall apply for GERAN/UTRAN<br>parameters]<br>[Option B shall apply for PCS1900<br>parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 1.2.1  | [Call control result: "Allowed, no<br>modification"]   |
| 4    | ME → USS  | The ME sets up the call without<br>modification                          | [Set up call to<br>"+01234567890123456789"]  |
| 5    | User → ME | End the call then call the last<br>dialled number                        |  |
| 6    | ME → UICC | ENVELOPE CALL CONTROL<br>1.2.1A<br>or<br>ENVELOPE CALL CONTROL<br>1.2.1B | [Option A shall apply for GERAN/UTRAN<br>parameters]<br>[Option B shall apply for PCS1900<br>parameters] |
| 7    | UICC → ME | CALL CONTROL RESULT 1.2.1  |  |
| 8    | ME → USS  | The ME sets up the call without<br>modification                          | [Set up call to<br>"+01234567890123456789"]  |

**Expected Sequence 1.13 (CALL CONTROL BY USIM , set up call through call register, not allowed)**

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers not allowed by call control in its register.

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | Set up a call to<br>"+01234567890123456789"                              |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL<br>1.4.1A<br>or<br>ENVELOPE CALL CONTROL<br>1.4.1B | [Option A shall apply for GERAN/UTRAN<br>parameters]<br>[Option B shall apply for PCS1900<br>parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 1.4.1  | [Call control result: "not Allowed"]   |
| 4    | ME → USS  | The ME does not set up the call  |  |
| 5    | User → ME | The user calls the last dialled<br>number                                |  |
| 6    | ME → UICC | ENVELOPE CALL CONTROL<br>1.4.1A<br>or<br>ENVELOPE CALL CONTROL<br>1.4.1B | [Option A shall apply for GERAN/UTRAN<br>parameters]<br>[Option B shall apply for PCS1900<br>parameters] |
| 7    | UICC → ME | CALL CONTROL RESULT 1.4.1  | [Call control result: "not Allowed"]   |
| 8    | ME → USS  | The ME does not set up the call  |  |

#### Expected Sequence 1.14 (CALL CONTROL BY USIM , set up call through call register, allowed with modifications)

Pre-condition: the ME has a mean to register the last dialled number(s), and the ME will store dialled numbers allowed with modification by call control in its register.

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | Set up a call to<br>"+01234567890123456789"                              |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL<br>1.6.1A<br>or<br>ENVELOPE CALL CONTROL<br>1.6.1B | [Option A shall apply for GERAN/UTRAN<br>parameters]<br>[Option B shall apply for PCS1900<br>parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 1.6.1  | [Call control result: "Allowed with<br>modifications"]   |
| 4    | ME → USS  | The ME sets up the call to<br>"+010203"                                  |  |
| 5    | User → ME | End call and then set up a call to<br>"+01234567890123456789"            |  |
| 6    | ME → UICC | ENVELOPE CALL CONTROL<br>1.6.1A<br>or<br>ENVELOPE CALL CONTROL<br>1.6.1B | [Option A shall apply for GERAN/UTRAN<br>parameters]<br>[Option B shall apply for PCS1900<br>parameters] |
| 7    | UICC → ME | CALL CONTROL RESULT 1.6.1  | [Call control result: "Allowed with<br>modifications"]   |
| 8    | ME → USS  | The ME sets up the call to<br>"+010203"                                  |  |

#### 27.22.6.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.14.

#### 27.22.6.2 Procedure for Supplementary (SS) Services

##### 27.22.6.2.1 Definition and applicability

See clause 3.2.2.

### 27.22.6.2.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in the following technical specifications:

- TS 31.111 [15] clause 7.3.1.2.

### 27.22.6.2.3 Test purpose

To verify that the ME first pass the supplementary service control string corresponding to the supplementary service operation to the USIM, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the UICC responds with '90 00', the ME shall send the supplementary service operation with the information as sent to the UICC.

To verify that, if the UICC returns response data, the ME shall use the response data appropriately to send the supplementary service operation as proposed, not send the SS operation, or instead send the USS operation using the data supplied by the UICC.

### 27.22.6.2.4 Method of tests

#### 27.22.6.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The elementary files are coded as USIM Application Toolkit default with the following exception:

The call control service is available in the USIM Service Table.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

## 27.22.6.2.4.2 Procedure

**Expected Sequence 2.1 (CALL CONTROL BY USIM , send SS, the USIM responds with '90 00')**

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator). |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 2.1.1A<br>or<br>ENVELOPE CALL CONTROL 2.1.1B   | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | 90 00  |  |
| 4    | ME → USS  | REGISTER 2.1A<br>or<br>REGISTER 2.1B   | [The ME sends the supplementary service operation with the information as sent to the UICC]        |
| 5    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 2.1  |  |

## ENVELOPE CALL CONTROL 2.1.1A

Logically:

## Device identities

Source device: ME  
Destination device: UICC

## SS String

TON/NPI: "FF"  
Dialling number string "\*21\*\*10#"

## Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)  
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

|          |    |       |        |    |    |    |    |    |    |    |        |    |
|----------|----|-------|--------|----|----|----|----|----|----|----|--------|----|
| BER-TLV: | D4 | Note1 | 82     | 02 | 82 | 81 | 89 | 05 | FF | 2A | A1     | 1A |
|          | B0 | 13    | Note 2 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 3 |    |

Note 1: Length of BER-TLV is '14' plus the actual length of all the present optional SIMPLE-TLV data objects

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

## ENVELOPE CALL CONTROL 2.1.1B

Logically:

## Device identities

Source device: ME  
Destination device: UICC

## SS String

TON/NPI: "FF"  
Dialling number string "\*21\*\*10#"

## Location Information

MCC & MNC the mobile country and network code (001110)

LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D4 | 14 | 82 | 02 | 82 | 81 | 89 | 05 | FF | 2A | A1 | 1A |
|          | B0 | 13 | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 |    |    |

#### REGISTER 2.1A

Logically (only SS argument):

##### ACTIVATE SS ARGUMENT

SS-Code:

- Call Forwarding Unconditional

TeleserviceCode

- All Tele Services

Coding:

|        |    |    |    |    |    |    |    |    |  |  |  |  |
|--------|----|----|----|----|----|----|----|----|--|--|--|--|
| Coding | 30 | 06 | 04 | 01 | 21 | 83 | 01 | 00 |  |  |  |  |
|--------|----|----|----|----|----|----|----|----|--|--|--|--|

#### REGISTER 2.1B

Logically (only SS argument):

##### ACTIVATE SS ARGUMENT

SS-Code:

- Call Forwarding Unconditional

TeleserviceCode

- All Tele Services

LongFTN Supported

Coding:

|        |    |    |    |    |    |    |    |    |    |    |  |  |
|--------|----|----|----|----|----|----|----|----|----|----|--|--|
| Coding | 30 | 08 | 04 | 01 | 21 | 83 | 01 | 00 | 84 | 00 |  |  |
|--------|----|----|----|----|----|----|----|----|----|----|--|--|

#### RELEASE COMPLETE (SS RETURN RESULT) 2.1

Logically (only from operation code):

##### ACTIVATE SS RETURN RESULT

ForwardingInfo

SS-Code

- Call Forwarding Unconditional

ForwardFeatureList

ForwardingFeature

TeleserviceCode

- All Tele Services

SS-Status

- state ind.: operative

- provision ind.: provisioned

- registration ind.: registered

- activation ind.: active

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 0C | A0 | 0D | 04 | 01 | 21 | 30 | 08 | 30 | 06 | 83 | 01 |
|        | 00 | 84 | 01 | 07 |    |    |    |    |    |    |    |    |



**Expected Sequence 2.2 (CALL CONTROL BY USIM , send SS, allowed without modifications)**

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator). |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 2.2.1A<br>or<br>ENVELOPE CALL CONTROL 2.2.1B   | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 2.2.1  | [Call control result: "Allowed without modifications"]   |
| 4    | ME → USS  | REGISTER 2.1A<br>or<br>REGISTER 2.1B   | The ME sends the supplementary service operation with the information as sent to the UICC          |
| 5    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 2.1  |  |

**ENVELOPE CALL CONTROL 2.2.1A**

Logically:

## Device identities

Source device: ME  
Destination device: UICC

## SS String

TON/NPI: "FF"  
Dialling number string: "\*21\*\*10#"

## Location Information

MCC & MNC: the mobile country and network code (00F110)  
LAC: the location Area Code (0001)  
Cell ID: Cell Identity Value (0001)  
Extended Cell ID: RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

|          |    |        |        |    |    |    |    |    |    |    |        |    |
|----------|----|--------|--------|----|----|----|----|----|----|----|--------|----|
| BER-TLV: | D4 | Note 1 | 82     | 02 | 82 | 81 | 89 | 05 | FF | 2A | A1     | 1A |
|          | B0 | 13     | Note 2 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 3 |    |

Note 1: Length of BER-TLV is '14' plus the actual length of all the present optional SIMPLE-TLV data objects

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

**ENVELOPE CALL CONTROL 2.2.1B**

Logically:

## Device identities

Source device: ME  
Destination device: UICC

## SS String

TON/NPI: "FF"  
Dialling number string: "\*21\*\*10#"

## Location Information

MCC & MNC: the mobile country and network code (001110)

LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D4 | 14 | 82 | 02 | 82 | 81 | 89 | 05 | FF | 2A | A1 | 1A |
|          | B0 | 13 | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 |    |    |

CALL CONTROL RESULT 2.2.1

Logically:

Call control result Allowed, no modifications

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 00 | 00 |
|----------|----|----|

**Expected Sequence 2.3 (CALL CONTROL BY USIM , send SS, not allowed)**

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator). |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 2.3.1A<br>or<br>ENVELOPE CALL CONTROL 2.3.1B   | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 2.3.1  | [Call control result: "Not Allowed"]   |
| 4    | ME → USS  | The ME does not send the supplementary service operation   |  |

ENVELOPE CALL CONTROL 2.3.1A

Logically:

Device identities

Source device: ME  
 Destination device: UICC

SS String

TON/NPI: "FF"  
 Dialling number string "\*21#"

Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

|          |        |        |    |    |    |    |    |    |        |    |    |    |
|----------|--------|--------|----|----|----|----|----|----|--------|----|----|----|
| BER-TLV: | D4     | Note 1 | 82 | 02 | 82 | 81 | 89 | 03 | FF     | 2A | B1 | 13 |
|          | Note 2 | 00     | F1 | 10 | 00 | 01 | 00 | 01 | Note 3 |    |    |    |

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

ENVELOPE CALL CONTROL 2.3.1B

Logically:

Device identities

Source device: ME  
 Destination device: UICC

SS String

TON/NPI: "FF"  
 Dialling number string: "\*21#"

Location Information

MCC & MNC: the mobile country and network code (001110)  
 LAC: the location Area Code (0001)  
 Cell ID: Cell Identity Value (0001)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D4 | 12 | 82 | 02 | 82 | 81 | 89 | 03 | FF | 2A | B1 | 13 |
|          | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 |    |    |    |    |

CALL CONTROL RESULT 2.3.1

Logically:

Call control result: Not Allowed

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 01 | 00 |
|----------|----|----|

**Expected Sequence 2.4 (CALL CONTROL BY USIM , send SS, allowed with modifications)**

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | The user selects the facility of the ME which requires an unconditional call forward supplementary service operation to be sent to the network (System Simulator). |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 2.4.1A<br>or<br>ENVELOPE CALL CONTROL 2.4.1B   | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 2.4.1  | [Call control result: "Allowed with modifications"]  |
| 4    | ME → USS  | REGISTER 2.4A<br>or<br>REGISTER 2.4B   | [The ME sends the supplementary service operation with the information as sent by the UICC]        |
| 5    | USS → ME  | RELEASE COMPLETE (SS RETURN RESULT) 2.4  |  |

ENVELOPE CALL CONTROL 2.4.1A

Logically:

Device identities

Source device: ME  
 Destination device: UICC

SS String

TON/NPI: "FF"  
 Dialling number string "\*"21#"

Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

|          |        |        |    |    |    |    |    |    |        |    |    |    |
|----------|--------|--------|----|----|----|----|----|----|--------|----|----|----|
| BER-TLV: | D4     | Note 1 | 82 | 02 | 82 | 81 | 89 | 03 | FF     | 2A | B1 | 13 |
|          | Note 2 | 00     | F1 | 10 | 00 | 01 | 00 | 01 | Note 3 |    |    |    |

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### ENVELOPE CALL CONTROL 2.4.1B

Logically:

Device identities

Source device: ME  
 Destination device: UICC

SS String

TON/NPI: "FF"  
 Dialling number string "\*"21#"

Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D4 | 12 | 82 | 02 | 82 | 81 | 89 | 03 | FF | 2A | B1 | 13 |
|          | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 |    |    |    |    |

#### CALL CONTROL RESULT 2.4.1

Logically:

Call control result Allowed, with modifications

SS String

TON/NPI "FF"  
 SS String "\*"21#"

Coding:

|          |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|
| BER-TLV: | 02 | 06 | 89 | 04 | FF | BA | 12 | FB |
|----------|----|----|----|----|----|----|----|----|

#### REGISTER 2.4A

Logically (only SS argument):

INTERROGATE SS ARGUMENT

SS-Code

- Call Forwarding Unconditional

Coding:

|         |    |    |    |    |    |
|---------|----|----|----|----|----|
| BER-TLV | 30 | 03 | 04 | 01 | 21 |
|---------|----|----|----|----|----|

## REGISTER 2.4B

Logically (only SS argument):

## INTERROGATE SS ARGUMENT

SS-Code

- Call Forwarding Unconditional

LongFTN Supported

Coding:

|         |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|
| BER-TLV | 30 | 05 | 04 | 01 | 21 | 84 | 00 |
|---------|----|----|----|----|----|----|----|

## RELEASE COMPLETE (SS RETURN RESULT) 2.4

Logically (only from operation code):

## INTERROGATE SS RESULT

Call Forwarding Unconditional

SS-Status

- state ind.: operative

- provision ind.: provisioned

- registration ind.: registered

- activation ind.: not active

Coding:

|         |    |    |    |  |  |  |  |  |  |
|---------|----|----|----|--|--|--|--|--|--|
| BER-TLV | 80 | 01 | 06 |  |  |  |  |  |  |
|---------|----|----|----|--|--|--|--|--|--|

## 27.22.6.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.4.

## 27.22.6.3 Interaction with Fixed Dialling Number (FDN)

## 27.22.6.3.1 Definition and applicability

See clause 3.2.2.

## 27.22.6.3.2 Conformance requirement

The ME shall support the CALL CONTROL facility as defined in:

- TS 31.111 [15] clause 7.3.1.4.

## 27.22.6.3.3 Test purpose

To verify that the ME checks that the number entered through the MMI is on the FDN list.

To verify that, if the MMI input does not pass the FDN check, the call shall not be set up.

To verify that, if the MMI input does pass the FDN check, the ME shall pass the dialled digits and other parameters to the UICC, using the ENVELOPE (CALL CONTROL) command.

To verify that, if the UICC responds with "allowed, no modification", the ME shall set up the call as proposed.

To verify that, if the UICC responds with "not allowed", the ME shall not set up the call.

To verify that, if the UICC responds with "allowed with modifications", the ME shall set up the call in accordance with the response from the UICC. If the modifications involve changing the dialled digits, the ME shall not re-check this modified number against the FDN list.

#### 27.22.6.3.4 Method of tests

##### 27.22.6.3.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The elementary files are coded as SIM Application Toolkit default with the following exceptions:

The call control service is available in the USIM Service Table.

Fixed Dialling Number service is enabled.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

##### 27.22.6.3.4.2 Procedure

#### Expected Sequence 3.1 (CALL CONTROL BY USIM , set up a call not in EF<sub>FDN</sub>)

| Step | Direction | Message / Action  | Comments |
|------|-----------|---|----------|
| 1    | User → ME | The user sets up a call to "4321"                                     |          |
| 2    | ME → UICC | The ME does not send the ENVELOPE (CALL CONTROL) command to the USIM. |          |
| 3    | ME → USS  | The ME does not set up the call.                                      |          |

#### Expected Sequence 3.2 (CALL CONTROL BY USIM , set up a call in EF<sub>FDN</sub> , the USIM responds with '90 00')

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | The user sets up a call to "123"                                   |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 3.2.1A<br>or<br>ENVELOPE CALL CONTROL 3.2.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | 90 00  |  |
| 4    | ME → USS  | The ME sets up the call without modification                       | [Set up call to "123"]   |

## ENVELOPE CALL CONTROL 3.2.1A

Logically:

## Device identities

Source device: ME  
 Destination device: UICC

## Address

TON Unknown  
 NPI "ISDN / telephone numbering plan"  
 Dialling number string "123"

## Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

## Subaddress

This parameter is optional. If present, the contents shall not be checked.

## Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

## Extended Cell ID

RNC-id value (for Rel-4 onwards), see also Note 6

## Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |        |        |        |    |    |    |    |    |    |    |        |        |
|----------|--------|--------|--------|----|----|----|----|----|----|----|--------|--------|
| BER-TLV: | D4     | Note 1 | 82     | 02 | 82 | 81 | 86 | 03 | 81 | 21 | F3     | Note 2 |
|          | Note 3 | 13     | Note 5 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 6 | Note 4 |

## ENVELOPE CALL CONTROL 3.2.1B

Logically:

## Device identities

Source device: ME  
 Destination device: UICC

## Address

TON Unknown  
 NPI "ISDN / telephone numbering plan"  
 Dialling number string "123"

## Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

## Subaddress

This parameter is optional. If present, the contents shall not be checked.

## Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

## Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |        |        |    |    |    |    |    |    |    |    |        |        |
|----------|--------|--------|----|----|----|----|----|----|----|----|--------|--------|
| BER-TLV: | D4     | Note 1 | 82 | 02 | 82 | 81 | 86 | 03 | 81 | 21 | F3     | Note 2 |
|          | Note 3 | 13     | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 | Note 4 |        |

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

**Expected Sequence 3.3 (CALL CONTROL BY USIM , set up a call in EF<sub>FDN</sub>, Allowed without modifications)**

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | The user sets up a call to "9876"                                  |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 3.3.1A<br>or<br>ENVELOPE CALL CONTROL 3.3.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 3.3.1  | [Call control result: "Allowed without modifications"]   |
| 4    | ME → USS  | The ME sets up the call without modification                       | [Set up call to "9876"]  |

ENVELOPE CALL CONTROL 3.3.1A

Logically:

Device identities

Source device: ME  
Destination device: UICC

Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "9876"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)  
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |        |        |        |    |    |    |    |    |    |    |        |        |
|----------|--------|--------|--------|----|----|----|----|----|----|----|--------|--------|
| BER-TLV: | D4     | Note 1 | 82     | 02 | 82 | 81 | 86 | 03 | 81 | 89 | 67     | Note 2 |
|          | Note 3 | 13     | Note 5 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 6 | Note 4 |

ENVELOPE CALL CONTROL 3.3.1B

Logically:

Device identities

Source device: ME  
Destination device: UICC

Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "9876"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress



This parameter is optional. If present, the contents shall not be checked.

#### Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

#### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

#### Coding:

|          |        |        |    |    |    |    |    |    |    |    |        |        |
|----------|--------|--------|----|----|----|----|----|----|----|----|--------|--------|
| BER-TLV: | D4     | Note 1 | 82 | 02 | 82 | 81 | 86 | 03 | 81 | 89 | 67     | Note 2 |
|          | Note 3 | 13     | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 | Note 4 |        |

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### CALL CONTROL RESULT 3.3.1

#### Logically:

Call control result Allowed, no modifications

#### Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 00 | 00 |
|----------|----|----|

#### Expected Sequence 3.4 (CALL CONTROL BY USIM , set up a call in EF<sub>FDN</sub> , Not Allowed)

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | The user sets up a call to "9876"                                  |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 3.4.1A<br>or<br>ENVELOPE CALL CONTROL 3.4.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 3.4.1  | [Call control result: "Not Allowed"]   |
| 4    | ME → USS  | The ME does not set up the call                                    |  |

#### ENVELOPE CALL CONTROL 3.4.1A

#### Logically:

##### Device identities

Source device: ME  
 Destination device: UICC

##### Address

TON Unknown  
 NPI "ISDN / telephone numbering plan"  
 Dialling number string "9876"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Subaddress

This parameter is optional. If present, the contents shall not be checked.

#### Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

#### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

#### Coding:

|          |        |        |        |    |    |    |    |    |    |    |        |        |
|----------|--------|--------|--------|----|----|----|----|----|----|----|--------|--------|
| BER-TLV: | D4     | Note 1 | 82     | 02 | 82 | 81 | 86 | 03 | 81 | 89 | 67     | Note 2 |
|          | Note 3 | 13     | Note 5 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 6 | Note 4 |

### ENVELOPE CALL CONTROL 3.4.1B

#### Logically:

##### Device identities

Source device: ME  
 Destination device: UICC

##### Address

TON Unknown  
 NPI "ISDN / telephone numbering plan"  
 Dialling number string "9876"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Subaddress

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

#### Coding:

|          |        |        |    |    |    |    |    |    |    |    |        |        |
|----------|--------|--------|----|----|----|----|----|----|----|----|--------|--------|
| BER-TLV: | D4     | Note 1 | 82 | 02 | 82 | 81 | 86 | 03 | 81 | 89 | 67     | Note 2 |
|          | Note 3 | 13     | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 | Note 4 |        |

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

### CALL CONTROL RESULT 3.4.1

#### Logically:

Call control result Not Allowed

#### Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 01 | 00 |
|----------|----|----|

### Expected Sequence 3.5 (CALL CONTROL BY USIM , set up a call in EF<sub>FDN</sub> , Allowed with modifications)

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | The user sets up a call to "9876"                                  |  |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 3.5.1A<br>or<br>ENVELOPE CALL CONTROL 3.5.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 3.5.1  | [Call control result: "Allowed with modifications"]  |
| 4    | ME → USS  | The ME sets up the call with data sent by the UICC                 | [Set up call to "3333"]  |

#### ENVELOPE CALL CONTROL 3.5.1A

Logically:

##### Device identities

Source device: ME  
Destination device: UICC

##### Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "9876"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Subaddress

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)  
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 6

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |       |        |        |    |    |    |    |    |    |    |        |        |
|----------|-------|--------|--------|----|----|----|----|----|----|----|--------|--------|
| BER-TLV: | D4    | Note 1 | 82     | 02 | 82 | 81 | 86 | 03 | 81 | 89 | 67     | Note 2 |
|          | Note3 | 13     | Note 5 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 6 | Note 4 |

#### ENVELOPE CALL CONTROL 3.5.1B

Logically:

##### Device identities

Source device: ME  
Destination device: UICC

##### Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "9876"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Subaddress

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (001110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |       |        |    |    |    |    |    |    |    |    |        |        |
|----------|-------|--------|----|----|----|----|----|----|----|----|--------|--------|
| BER-TLV: | D4    | Note 1 | 82 | 02 | 82 | 81 | 86 | 03 | 81 | 89 | 67     | Note 2 |
|          | Note3 | 13     | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 | Note 4 |        |

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Subaddress may be present at this place. If present, it may take up several octets.

Note 4: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 6: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### CALL CONTROL RESULT 3.5.1

Logically:

Call control result Allowed with modifications  
 Address  
 TON Unknown  
 NPI "ISDN / telephone numbering plan"  
 Address value "3333"

Coding:

|          |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|
| BER-TLV: | 02 | 05 | 86 | 03 | 81 | 33 | 33 |
|----------|----|----|----|----|----|----|----|

#### 27.22.6.3.5 Test requirement

The ME shall operate in the manner defined in expected sequences 3.1 to 3.5.

#### 27.22.6.4 Support of Barred Dialling Number (BDN) service

##### 27.22.6.4.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the ME. The call restrictions are controlled by the Terminal. To ascertain the type of USIM and state of BDN the ME runs the BDN capability request procedure during UICC-Terminal initialisation. At the time an emergency call is setup using the emergency call code read from the EF<sub>ECC</sub>, the Rel-4+ ME shall use the category of the emergency service indicated.

##### 27.22.6.4.2 Conformance requirement

- 1) Recognising the state of the USIM (BDN enabled) the ME shall perform the UICC initialisation procedure as specified.
- 2) The ME shall prevent call set-up to any number stored in EF<sub>BDN</sub> if BDN service is enabled.
- 3) The ME shall allow call set-up to any number stored in EF<sub>BDN</sub> if BDN service is disabled.

- 4) Any change to the EF<sub>BDN</sub> or EF<sub>EST</sub> does request PIN2.
- 5) The ME allows call set-up of an emergency call, even if this number is stored in the USIM.

References:

- R99: TS 22.101[22], clause 8 and A.19;
- Rel-4: TS 22.101[22], clause 9 and A.20;
- Rel-5+: TS 22.101[22], clause 10 and A.21;
- TS 31.102[14], subclauses 4.2.44, 4.4.2.3, 5.1.1 and 5.3.2;
- TS 24.008[10], subclause 10.5.4.33;
- TS 31.111[15], subclause 7.3.1.5

### 27.22.6.4.3 Test purpose

- 1) To verify that the Terminal rejects call set-up to any number that has an entry in EF<sub>BDN</sub> if BDN service is enabled.
- 2) To verify that the Terminal allows call set-up to any number not stored in EF<sub>BDN</sub>.
- 3) To verify that the Terminal allows emergency call set-up even if the number is stored in EF<sub>BDN</sub>.
- 4) To verify that the Rel-4+ Terminal reads correctly the emergency service category stored in EF<sub>ECC</sub>.
- 5) To verify that, if the UICC responds with "not allowed", the ME does not set up the call.
- 6) To verify that, if the UICC responds with "allowed, no modification", the ME shall set up the call (or the supplementary service operation) as proposed.
- 7) To verify that, if the UICC responds with "allowed with modifications", the ME sets up the call in accordance with the response from the UICC. If the modifications involve changing the dialled number the ME does not re-check this modified number against the FDN list when FDN is enabled.
- 8) To verify that updating EF BDN or changing the status of BDN service shall be performed by the use of second application PIN only.
- 9) To verify that the ME allows call set up to a BDN number if BDN service is disabled.

### 27.22.6.4.4 Method of tests

#### 27.22.6.4.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The call control service is available in the USIM Service Table.

The elementary files are coded as USIM Application Toolkit default with the following exceptions:

Barred Dialling Number service is enabled.

Fixed Dialling Number service is disabled.

Only prior to the execution of expected sequence 4.3 the FDN service shall be enabled.

The Second Application PIN (key reference 81) shall be enabled, but not verified.

Only in expected sequence 4.2B EF<sub>ECC</sub> shall be used with the following values:

EF<sub>ECC</sub> (Emergency Call Codes)

Logically:      Emergency call code:                    "122";  
                  Emergency call code alpha identifier:        "TEST";  
                  Emergency call Service Category:            "Mountain Rescue".

|         |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|
| Coding: | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 |
| Hex     | 21 | F2 | FF | 54 | 45 | 53 | 54 | 10 |

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
  - Location Area Code (LAC) = 0001;
  - Cell Identity value = 0001.

## 27.22.6.4.4.2 Procedure

**Expected Sequence 4.1 (CALL CONTROL BY USIM, BDN service enabled)**

| Step | Direction | Message / Action  | Comments   |
|------|-----------|---|--|
| 1    | User → ME | The user sets up a call to "+1357924680"  | [Number as stored in record 1 of EF BDN]   |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 4.1.1A<br>or<br>ENVELOPE CALL CONTROL 4.1.1B  | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 3    | UICC → ME | CALL CONTROL RESULT 4.1.1   | [Call control result: "Not Allowed"]   |
| 4    | ME → USS  | The ME does not set up the call   |  |
| 5    | User → ME | The user sets up a call to the number stored in record 1 of EF ADN  |  |
| 6    | ME → UICC | ENVELOPE CALL CONTROL 4.1.2A<br>or<br>ENVELOPE CALL CONTROL 4.1.2B  | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 7    | UICC → ME | CALL CONTROL RESULT 4.1.2   | [Call control result: "Allowed without modifications"]   |
| 8    | ME → USS  | The ME sets up the call without modification  |  |
| 9    | User → ME | The user sets up a call to '123456'   |  |
| 10   | ME → UICC | ENVELOPE CALL CONTROL 4.1.3A<br>or<br>ENVELOPE CALL CONTROL 4.1.3B  | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 11   | UICC → ME | CALL CONTROL RESULT 4.1.2   | [Call control result: "Allowed without modifications"]   |
| 12   | ME → USS  | The ME sets up the call without modification  |  |
| 13   | User → ME | The user sets up a call to "1111"   |  |
| 14   | ME → UICC | ENVELOPE CALL CONTROL 4.1.4A<br>or<br>ENVELOPE CALL CONTROL 4.1.4B  | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 15   | UICC → ME | CALL CONTROL RESULT 4.1.3   | [Call control result: "Allowed with modifications"]  |
| 16   | ME → USS  | The ME sets up the call with data sent by the UICC  | [Set up call to "2222"]  |
| 17   | User → ME | The user shall use a MMI dependent procedure to initiate the disabling of the BDN service                                     |  |
| 18   | ME → User | Ask for second application PIN verification   |  |
| 19   | User → ME | The user shall enter the second application PIN   |  |
| 20   | ME → UICC | Update EF EST to disable BDN service  |  |
| 21   | UICC → ME | UICC responds with SW = '90 00'   |  |
| 22   | ME → User | Indicate that the BDN service was disabled successfully   |  |
| 23   | User → ME | The user uses the MMI to store the directory number "+876543210" in EF <sub>BDN</sub> as barred dialling number 1 (record 1). | [The alpha identifier is not changed.]   |
| 24   | ME → UICC | Update EF BDN   |  |
| 25   | UICC → ME | UICC responds with SW = '90 00'   |  |
| 26   | ME → User | The user attempts to set up a call to '+876543210'.   |  |
| 27a  | ME → UICC | No Envelope call control is sent  |  |

|     |          |  |  |
|-----|----------|--|--|
| 27b | ME → USS | The ME sets up the call without modification |  |
|-----|----------|--|--|

## ENVELOPE CALL CONTROL 4.1.1A

Logically:

## Device identities

Source device: ME  
Destination device: UICC

## Address

TON International  
NPI "ISDN / telephone numbering plan"  
Dialling number string "1357924680"

## Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

## Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)

## Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |       |        |        |    |        |    |    |    |    |    |    |    |
|----------|-------|--------|--------|----|--------|----|----|----|----|----|----|----|
| BER-TLV: | D4    | Note 1 | 82     | 02 | 82     | 81 | 86 | 06 | 91 | 31 | 75 | 29 |
|          | 64    | 08     | Note 2 | 13 | Note 4 | 00 | F1 | 10 | 00 | 01 | 00 | 01 |
|          | Note5 | Note 3 |        |    |        |    |    |    |    |    |    |    |

## ENVELOPE CALL CONTROL 4.1.1B

Logically:

## Device identities

Source device: ME  
Destination device: UICC

## Address

TON International  
NPI "ISDN / telephone numbering plan"  
Dialling number string "1357924680"

## Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

## Location Information

MCC & MNC the mobile country and network code (001110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)

## Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |        |        |        |    |    |    |    |    |    |    |    |    |
|----------|--------|--------|--------|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D4     | Note 1 | 82     | 02 | 82 | 81 | 86 | 06 | 91 | 31 | 75 | 29 |
|          | 64     | 08     | Note 2 | 13 | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 |
|          | Note 3 |        |        |    |    |    |    |    |    |    |    |    |

Note 1: Length of BER-TLV is '15' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.



Note 4: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 5: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### ENVELOPE CALL CONTROL 4.1.2A

Logically:

##### Device identities

Source device: ME  
Destination device: UICC

##### Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "123"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)

##### Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 5

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |    |    |    |        |        |        |
|----------|----|--------|----|----|----|----|----|----|----|--------|--------|--------|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86 | 03 | 81 | 21     | F3     | Note 2 |
|          | 13 | Note 4 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 5 | Note 3 |        |

#### ENVELOPE CALL CONTROL 4.1.2B

Logically:

##### Device identities

Source device: ME  
Destination device: UICC

##### Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "123"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (001110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |    |    |    |        |    |        |
|----------|----|--------|----|----|----|----|----|----|----|--------|----|--------|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86 | 03 | 81 | 21     | F3 | Note 2 |
|          | 13 | 07     | 00 | 11 | 10 | 00 | 01 | 00 | 01 | Note 3 |    |        |

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 4: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 5: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### ENVELOPE CALL CONTROL 4.1.3A

Logically:

##### Device identities

Source device: ME  
Destination device: UICC

##### Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "123456"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)

Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 5

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |        |        |        |    |    |    |    |    |    |    |        |        |
|----------|--------|--------|--------|----|----|----|----|----|----|----|--------|--------|
| BER-TLV: | D4     | Note 1 | 82     | 02 | 82 | 81 | 86 | 04 | 81 | 21 | 43     | 65     |
|          | Note 2 | 13     | Note 4 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 5 | Note 3 |

#### ENVELOPE CALL CONTROL 4.1.3B

Logically:

##### Device identities

Source device: ME  
Destination device: UICC

##### Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "123456"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (001110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |        |        |    |    |    |    |    |    |    |    |        |    |
|----------|--------|--------|----|----|----|----|----|----|----|----|--------|----|
| BER-TLV: | D4     | Note 1 | 82 | 02 | 82 | 81 | 86 | 04 | 81 | 21 | 43     | 65 |
|          | Note 2 | 13     | 07 | 00 | 11 | 10 | 00 | 01 | 00 | 01 | Note 3 |    |

Note 1: Length of BER-TLV is '13' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 4: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'.

Note 5: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### ENVELOPE CALL CONTROL 4.1.4A

Logically:

##### Device identities

Source device: ME  
Destination device: UICC

##### Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "1111"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)  
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 5

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |    |    |    |        |        |        |
|----------|----|--------|----|----|----|----|----|----|----|--------|--------|--------|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86 | 03 | 81 | 11     | 11     | Note 2 |
|          | 13 | Note 4 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 5 | Note 3 |        |

#### ENVELOPE CALL CONTROL 4.1.4B

Logically:

##### Device identities

Source device: ME  
Destination device: UICC

##### Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "1111"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (001110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |    |    |    |        |    |        |
|----------|----|--------|----|----|----|----|----|----|----|--------|----|--------|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86 | 03 | 81 | 11     | 11 | Note 2 |
|          | 13 | 07     | 00 | 11 | 10 | 00 | 01 | 00 | 01 | Note 3 |    |        |

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 4: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 5: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### CALL CONTROL RESULT 4.1.1

Logically:

Call control result      Not Allowed

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 01 | 00 |
|----------|----|----|

#### CALL CONTROL RESULT 4.1.2

Logically:

Call control result      Allowed, no modifications

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 00 | 00 |
|----------|----|----|

#### CALL CONTROL RESULT 4.1.3

Logically:

|                     |                                   |
|---------------------|-----------------------------------|
| Call control result | Allowed with modifications        |
| Address             |                                   |
| TON                 | Unknown                           |
| NPI                 | "ISDN / telephone numbering plan" |
| Address value       | "2222"                            |

Coding:

|          |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|
| BER-TLV: | 02 | 05 | 86 | 03 | 81 | 22 | 22 |
|----------|----|----|----|----|----|----|----|

#### Expected Sequence 4.2A (CALL CONTROL BY USIM, BDN service enabled, interaction with emergency call codes, R99 only)

| Step | Direction | Message / Action   | Comments  |
|------|-----------|--|---|
| 1    | User → ME | The user sets up an emergency call to an emergency number stored in the terminal.      | The used emergency number shall be one of the emergency call codes, which are available when a SIM/USIM is present, according to TS 22.101[22], subclause 8 is used (i.e. "112", or "911"). |
| 2a   | ME → UICC | No Envelope call control is sent   |   |
| 2b   | ME → USS  | The ME shall allow an emergency call by indicating the call setup as "Emergency Call". |   |
| 3    | User → ME | End the emergency call.  |   |

**Expected Sequence 4.2B (CALL CONTROL BY USIM, BDN service enabled, interaction with emergency call codes, Rel-4+)**

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | The user sets up an emergency call to an emergency number stored in the terminal.                              | The used emergency number shall be one of the emergency call codes, which are available when a SIM/USIM is present, according to TS 22.101[22], subclause 9 (Rel-4) or 10 (Rel-5+) is used (i.e. "112", or "911"). |
| 2a   | ME → UICC | No Envelope call control is sent   |  |
| 2b   | ME → USS  | The ME shall allow an emergency call by indicating the call setup as "Emergency Call".                         |  |
| 3    | User → ME | End the emergency call.  |  |
| 4    | User → ME | The user sets up an emergency call to an emergency number stored in the USIM.                                  |  |
| 5a   | ME → UICC | No Envelope call control is sent   |  |
| 5b   | ME → USS  | The ME shall allow an emergency call by sending the emergency service category correctly as 'Mountain Rescue'. |  |
| 6    | User → ME | End the emergency call.  |  |

**Expected Sequence 4.3 (CALL CONTROL BY USIM , FDN and BDN enabled, set up a call in EF<sub>FDN</sub>, Allowed with modifications)**

| Step | Direction | Message / Action   | Comments   |
|------|-----------|--|--|
| 1    | User → ME | The user sets up a call to "123"                                   | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 2    | ME → UICC | ENVELOPE CALL CONTROL 4.3.1A<br>or<br>ENVELOPE CALL CONTROL 4.3.1B |  |
| 3    | UICC → ME | CALL CONTROL RESULT 4.3.1  | [Call control result: "Allowed with modifications"]  |
| 4    | ME → USS  | The ME sets up the call with data sent by the UICC                 | [Set up call to "24680"the ME does not re-check this modified number against the FDN list]         |

ENVELOPE CALL CONTROL 4.3.1A

Logically:

Device identities

Source device: ME  
Destination device: UICC

Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "123"

Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

Subaddress

This parameter is optional. If present, the contents shall not be checked.

Location Information

MCC & MNC the mobile country and network code (00F110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)  
Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 5

Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |    |    |    |        |        |        |
|----------|----|--------|----|----|----|----|----|----|----|--------|--------|--------|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86 | 03 | 81 | 21     | F3     | Note 2 |
|          | 13 | Note 4 | 00 | F1 | 10 | 00 | 01 | 00 | 01 | Note 5 | Note 3 |        |

#### ENVELOPE CALL CONTROL 4.3.1B

Logically:

##### Device identities

Source device: ME  
Destination device: UICC

##### Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Dialling number string "123"

##### Capability configuration parameters 1

This parameter is optional. If present, the contents shall not be checked.

##### Subaddress

This parameter is optional. If present, the contents shall not be checked.

##### Location Information

MCC & MNC the mobile country and network code (001110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)

##### Capability configuration parameters 2

This parameter is optional. If present, the contents shall not be checked.

Coding:

|          |    |        |    |    |    |    |    |    |    |        |    |        |
|----------|----|--------|----|----|----|----|----|----|----|--------|----|--------|
| BER-TLV: | D4 | Note 1 | 82 | 02 | 82 | 81 | 86 | 03 | 81 | 21     | F3 | Note 2 |
|          | 13 | 07     | 00 | 11 | 10 | 00 | 01 | 00 | 01 | Note 3 |    |        |

Note 1: Length of BER-TLV is '12' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Capability configuration parameters 1 may be present at this place. If present, it may take up several octets.

Note 3: Capability configuration parameters 2 may be present at this place. If present, it may take up several octets.

Note 4: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 5: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### CALL CONTROL RESULT 4.3.1

Logically:

Call control result Allowed with modifications

##### Address

TON Unknown  
NPI "ISDN / telephone numbering plan"  
Address value "24680"

Coding:

|          |    |    |    |    |    |    |    |    |  |  |  |  |
|----------|----|----|----|----|----|----|----|----|--|--|--|--|
| BER-TLV: | 02 | 06 | 86 | 04 | 81 | 42 | 86 | F0 |  |  |  |  |
|----------|----|----|----|----|----|----|----|----|--|--|--|--|

#### 27.22.6.4.5 Test requirement

The ME shall operate in the manner defined in expected sequences 4.1 to 4.3.

## 27.22.6.5 Barred Dialling Number (BDN) service handling for terminals not supporting BDN

### 27.22.6.5.1 Definition and applicability

Barred Dialling Numbers (BDN) is a service defined for the USIM. An enabled BDN service results in call restrictions for the ME. The call restrictions are controlled by the Terminal. If BDN is enabled, an ME which does not support Call Control shall allow emergency calls but shall not allow MO-CS calls.

### 27.22.6.5.2 Conformance requirement

- 1) Recognising the state of the USIM (BDN enabled) the ME shall perform the UICC initialisation procedure as specified.
- 2) The ME shall prevent MO-CS call set-up to any number except to emergency call numbers if the BDN service is enabled.

#### References:

- Rel-5+: TS 22.101[22], clause 10 and A.21;  
TS 31.102[14], subclauses 4.2.44, 4.4.2.3, 5.1.1.2 and 5.3.2;  
TS 31.111[15], subclause 7.3.1.5

### 27.22.6.5.3 Test purpose

- 1) To verify that the Terminal rejects MO-CS call set-up to any number except to emergency call numbers if BDN service is enabled.
- 2) To verify that the Terminal allows emergency call set-up even if the BDN service is enabled.

### 27.22.6.5.4 Method of tests

#### 27.22.6.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The call control service is available in the USIM Service Table.

The elementary files are coded as USIM Application Toolkit default with the following exceptions:

Barred Dialling Number service is enabled.

## 27.22.6.5.4.2 Procedure

**Expected Sequence 5.1 (CALL CONTROL BY USIM, BDN service enabled, ME not supporting BDN)**

| Step | Direction | Message / Action  | Comments                                 |
|------|-----------|---|--|
| 1    | User → ME | The user sets up a call to "+1357924680"  | [Number as stored in record 1 of EF BDN] |
| 2a   | ME → UICC | No ENVELOPE CALL CONTROL is sent  |  |
| 2b   | ME → USS  | The ME does not set up the call   |  |
| 3    | User → ME | The user sets up a call to the number stored in record 1 of EF ADN                        |  |
| 4a   | ME → UICC | No ENVELOPE CALL CONTROL is sent  |  |
| 4b   | ME → USS  | The ME does not set up the call   |  |
| 5    | User → ME | The user sets up an emergency call to "112"   |  |
| 6a   | ME → UICC | No ENVELOPE CALL CONTROL is sent  |  |
| 6b   | ME → USS  | The ME sets up the emergency call to "112"  |  |
| 7    | User → ME | The user shall terminate the emergency call after 5 seconds. The ME returns to idle mode. |  |

**27.22.7 EVENT DOWNLOAD****27.22.7.1 MT Call Event****27.22.7.1.1 MT Call Event (normal)****27.22.7.1.1.1 Definition and applicability**

See clause 3.2.2.

**27.22.7.1.1.2 Conformance requirement**

The ME shall support the EVENT: MT Call event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

**27.22.7.1.1.3 Test purpose**

To verify that the ME informs the UICC that an Event: MT Call has occurred using the ENVELOPE (EVENT DOWNLOAD - MT Call) command.

**27.22.7.1.1.4 Method of test****27.22.7.1.1.4.1 Initial conditions**

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.



27.22.7.1.1.4.2 Procedure

**Expected Sequence 1.1 (EVENT DOWNLOAD -MT Call event)**

| Step | Direction | Message / Action   | Comments                     |
|------|-----------|--|------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1 |                              |
| 2    | ME → UICC | FETCH  |                              |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.1.1            |                              |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1            |                              |
| 5    | USS → ME  | CALL SET UP without CLI                                  | [MT Call Set Up Without CLI] |
| 6    | ME → UICC | ENVELOPE: EVENT DOWNLOAD<br>- MT Call 1.1.1              |                              |
| 7    | USS → ME  | CALL DISCONNECT  |                              |
| 8    | USS → ME  | CALL SET UP with CLI                                     | [MT Call Set Up With CLI]    |
| 9    | ME → UICC | ENVELOPE: EVENT DOWNLOAD<br>- MT Call 1.1.2              |                              |
| 10   | USS → ME  | CALL DISCONNECT  |                              |

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: MT call

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 00 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

EVENT DOWNLOAD - MT CALL 1.1.1

Logically:

Event list: MT call event  
 Device identities  
   Source device: Network  
   Destination device: UICC  
 Transaction identifier:  
   Ti value: 0 (bit 5-7)  
   Ti flag: 0 (bit 8)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 19 | 01 | 00 | 82 | 02 | 83 | 81 | 1C | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### EVENT DOWNLOAD - MT CALL 1.1.2

Logically:

Event list: MT call event  
 Device identities  
   Source device: Network  
   Destination device: UICC  
 Transaction identifier:  
   Ti value: 0 (bit 5-7)  
   Ti flag: 0 (bit 8)  
 Address:  
   TON Unknown  
   NPI "ISDN / telephone numbering plan"  
   Dialling number string "9876"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0F | 19 | 01 | 00 | 82 | 02 | 83 | 81 | 1C | 01 | 00 |
|          | 86 | 03 | 81 | 89 | 67 |    |    |    |    |    |    |    |

#### 27.22.7.1.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

#### 27.22.7.2 Call Connected Event

##### 27.22.7.2.1 Call Connected Event (MT and MO call)

###### 27.22.7.2.1.1 Definition and applicability

See clause 3.2.2.

###### 27.22.7.2.1.2 Conformance requirement

The ME shall support the EVENT: Call Connected event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

###### 27.22.7.2.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Call Connected has occurred using the ENVELOPE (EVENT DOWNLOAD -Call Connected) command.

27.22.7.2.1.4 Method of test

27.22.7.2.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.2.1.4.2 Procedure

**Expected Sequence 1.1 (EVENT DOWNLOAD -CALL CONNECTED)**

| Step | Direction | Message / Action   | Comments                       |
|------|-----------|--|--------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1 |                                |
| 2    | ME → UICC | FETCH  |                                |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.1.1            | [EVENT: Call Connected active] |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1            |                                |
| 5    | USS → ME  | SETUP  | [MT Call] Ti = 0               |
| 6    | USER → ME | Accept Call Set Up                                       |                                |
| 7    | ME → USS  | CONNECT  |                                |
| 8    | ME → UICC | ENVELOPE: EVENT DOWNLOAD<br>- Call Connected 1.1.1       |                                |
| 9    | USS → ME  | DISCONNECT   |                                |
| 10   | USER → ME | Initiate Call to "123"                                   |                                |
| 11   | ME → USS  | SETUP  | [MO Call] Ti = 0               |
| 12   | USS → ME  | CONNECT  |                                |
| 13   | ME → UICC | ENVELOPE: EVENT DOWNLOAD<br>- Call Connected 1.1.2       |                                |
| 14   | USER → ME | End Call   |                                |
| 15   | ME → USS  | DISCONNECT   |                                |

**PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Call Connected

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 01 |    |    |    |    |    |    |    |    |    |    |

**TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1**

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## EVENT DOWNLOAD - CALL CONNECTED 1.1.1

## Logically:

Event list: Call connected

## Device identities

Source device: ME  
 Destination device: UICC

## Transaction identifier:

Ti value: 0 (bit 5-7)  
 Ti flag: 1 (bit 8)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 19 | 01 | 01 | 82 | 02 | 82 | 81 | 1C | 01 | 80 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## EVENT DOWNLOAD - CALL CONNECTED 1.1.2

## Logically:

Event list: Call connected

## Device identities

Source device: Network  
 Destination device: UICC

## Transaction identifier:

Ti value: 0 (bit 5-7)  
 Ti flag: 1 (bit 8)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 19 | 01 | 01 | 82 | 02 | 83 | 81 | 1C | 01 | 80 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## 27.22.7.2.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

## 27.22.7.2.2 Call Connected Event (ME supporting SET UP CALL)

## 27.22.7.2.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.7.2.2.2 Conformance requirement

Additionally the ME shall support the SET UP CALL Proactive UICC Command as defined in:

- TS 31.111 [15] clause 7.5, clause 6.4.13 and clause 6.6.12.

27.22.7.2.2.3 Test purpose

To verify that the ME informs the UICC that an Event: Call Connected has occurred using the ENVELOPE (EVENT DOWNLOAD -Call Connected) command.

27.22.7.2.2.4 Method of test

27.22.7.2.2.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

27.22.7.2.2.4.2 Procedure

**Expected Sequence 2.1 (EVENT DOWNLOAD -CALL CONNECTED, ME supporting SET UP CALL)**

| Step | Direction | Message / Action  | Comments                       |
|------|-----------|---|--------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST 2.1.1           |                                |
| 2    | ME → UICC | FETCH   |                                |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1                      | [EVENT: Call Connected active] |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 2.1.1                      |                                |
| 5    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP CALL 2.1.1                 |                                |
| 6    | ME → UICC | FETCH   |                                |
| 7    | UICC → ME | PROACTIVE COMMAND: SET UP CALL 2.1.1                            | [SAT Call]                     |
| 8    | ME → USER | ME displays "+012340123456" during the user confirmation phase. | ME BEHAVIOUR: SET UP CALL      |
| 9    | USER → ME | Confirm call set up   |                                |
| 10   | ME → USS  | SETUP   | Ti=0                           |
| 11   | USS → ME  | CONNECT   |                                |
| 12   | ME → UICC | TERMINAL RESPONSE: SET UP CALL 2.1.1                            |                                |
| 13   | ME → UICC | ENVELOPE: CALL CONNECTED 2.1.1                                  |                                |

PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Call Connected

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 01 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP EVENT LIST 2.1.1

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 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

PROACTIVE COMMAND: SET UP CALL 2.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: Only if not currently busy on another call

Device identities

Source device: UICC  
 Destination device: Network

Alpha identifier: "+012340123456"

Address

TON: International  
 NPI: "ISDN / telephone numbering plan"  
 Dialling number string "012340123456"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 21 | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 81 | 83 |
|          | 05 | 0D | 2B | 30 | 31 | 32 | 33 | 34 | 30 | 31 | 32 |
|          | 33 | 34 | 35 | 36 | 86 | 07 | 91 | 10 | 32 | 04 | 21 |
|          | 43 | 65 |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP CALL 2.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP CALL  
 Command qualifier: Only if not currently busy on another call

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 10 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

EVENT DOWNLOAD - CALL CONNECTED 2.1.1

Logically:

Event list: Call connected  
 Device identities  
   Source device: Network  
   Destination device: UICC  
 Transaction identifier:  
   Ti value: 0 (bit 5-7)  
   Ti flag: 1 (bit 8)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 19 | 01 | 01 | 82 | 02 | 83 | 81 | 1C | 01 | 80 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.7.2.2.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 2.1'.

### 27.22.7.3 Call Disconnected Event

#### 27.22.7.3.1 Call Disconnected Event

##### 27.22.7.3.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.7.3.1.2 Conformance requirement

The ME shall support the EVENT: Call Disconnected event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

##### 27.22.7.3.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Call Disconnected has occurred using the ENVELOPE (EVENT DOWNLOAD -Call Disconnected) command.

##### 27.22.7.3.1.4 Method of test

###### 27.22.7.3.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

## 27.22.7.3.1.4.2 Procedure

**Expected Sequence 1.1 (EVENT DOWNLOAD -CALL DISCONNECTED)**

| Step | Direction | Message / Action  | Comments  |
|------|-----------|---|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1  |   |
| 2    | ME → UICC | FETCH   |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.1.1   | [EVENT: Call Disconnected active]                 |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1   |   |
| 5    | USS → ME  | SETUP   | [ incoming call ] Ti=0                            |
| 6    | USER → ME | Accept Call Set Up  |   |
| 7    | USS → ME  | RELEASE   | [MT RELEASE]                                      |
| 8    | ME→ UICC  | ENVELOPE: CALL<br>DISCONNECTED 1.1.1  |   |
| 9    | USS → ME  | SETUP   | [ incoming call ] Ti=0                            |
| 10   | USER → ME | Accept Call Set Up  |   |
| 11   | USS → ME  | RELEASE COMPLETE  | [MT RELEASE COMPLETE]                             |
| 12   | ME→ UICC  | ENVELOPE: CALL<br>DISCONNECTED 1.1.1  |   |
| 13   | USS → ME  | SETUP   | [ incoming call ] Ti=0                            |
| 14   | USER → ME | Accept Call Set Up  |   |
| 15   | USER → ME | End Call  |   |
| 16   | ME → USS  | DISCONNECT  | [MO DISCONNECT]                                   |
| 17   | ME → UICC | ENVELOPE: CALL<br>DISCONNECTED 1.1.2A<br>or<br>ENVELOPE: CALL<br>DISCONNECTED 1.1.2B<br>or<br>ENVELOPE: CALL<br>DISCONNECTED 1.1.2C |   |
| 18   | USS → ME  | SETUP   | [ incoming call ] Ti=0                            |
| 19   | USER → ME | Accept Call Set Up  |   |
| 20   | USS → ME  | DISCONNECT  | [MT DISCONNECT + CAUSE: normal call<br>clearing ] |
| 21   | ME→ UICC  | ENVELOPE: CALL<br>DISCONNECTED 1.1.3A<br>or<br>ENVELOPE: CALL<br>DISCONNECTED 1.1.3B  |   |
| 22   | USS → ME  | SETUP   | Ti=0  |
| 23   | USER → ME | Accept Call Set Up  |   |
| 24   | USS       | TX POWER to XX  | [RADIO LINK FAILURE]                              |
| 25   | ME→ UICC  | ENVELOPE: CALL<br>DISCONNECTED 1.1.4A or 1.1.4B   |   |

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Call Disconnected

Coding:



|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 02 |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

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 - CALL DISCONNECTED 1.1.1

Logically:

Event list: Call Disconnected

## Device identities

Source device: Network  
 Destination device: UICC

## Transaction identifier:

Ti value: 0 (bit 5-7)  
 Ti flag: 0 (bit 8)

Cause:

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 19 | 01 | 02 | 82 | 02 | 83 | 81 | 1C | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## EVENT DOWNLOAD - CALL DISCONNECTED 1.1.2A

Logically:

Event list: Call Disconnected

## Device identities

Source device: ME  
 Destination device: UICC

## Transaction identifier:

Ti value: 0 (bit 5-7)  
 Ti flag: 1 (bit 8)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 19 | 01 | 02 | 82 | 02 | 82 | 81 | 1C | 01 | 80 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## EVENT DOWNLOAD - CALL DISCONNECTED 1.1.2B

Logically:

Event list: Call Disconnected

Device identities

Source device: ME  
 Destination device: UICC  
 Transaction identifier:  
 Ti value: 0 (bit 5-7)  
 Ti flag: 1 (bit 8)  
 Cause: normal call clearing

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 19 | 01 | 02 | 82 | 02 | 82 | 81 | 1C | 01 | 80 |
|          | 9A | 02 | 60 | 90 |    |    |    |    |    |    |    |    |

#### EVENT DOWNLOAD - CALL DISCONNECTED 1.1.2C

Logically:

Event list: Call Disconnected  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Transaction identifier:  
 Ti value: 0 (bit 5-7)  
 Ti flag: 1 (bit 8)  
 Cause: normal call clearing

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 19 | 01 | 02 | 82 | 02 | 82 | 81 | 1C | 01 | 80 |
|          | 9A | 02 | E0 | 90 |    |    |    |    |    |    |    |    |

#### EVENT DOWNLOAD - CALL DISCONNECTED 1.1.3A

Logically:

Event list: Call Disconnected  
 Device identities  
 Source device: Network  
 Destination device: UICC  
 Transaction identifier:  
 Ti value: 0 (bit 5-7)  
 Ti flag: 0 (bit 8)  
 Cause: normal call clearing

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 19 | 01 | 02 | 82 | 02 | 83 | 81 | 1C | 01 | 00 |
|          | 9A | 02 | 60 | 90 |    |    |    |    |    |    |    |    |

#### EVENT DOWNLOAD - CALL DISCONNECTED 1.1.3B

Logically:

Event list: Call Disconnected  
 Device identities  
 Source device: Network  
 Destination device: UICC  
 Transaction identifier:  
 Ti value: 0 (bit 5-7)  
 Ti flag: 0 (bit 8)  
 Cause: normal call clearing

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 19 | 01 | 02 | 82 | 02 | 83 | 81 | 1C | 01 | 00 |
|          | 9A | 02 | E0 | 90 |    |    |    |    |    |    |    |    |

#### EVENT DOWNLOAD - CALL DISCONNECTED 1.1.4A

Logically:

Event list: Call Disconnected  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Transaction identifier:  
   Ti value: 0 (bit 5-7)  
   Ti flag: 1 (bit 8)  
 Cause: radio link failure

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0C | 19 | 01 | 02 | 82 | 02 | 82 | 81 | 1C | 01 | 80 |
|          | 9A | 00 |    |    |    |    |    |    |    |    |    |    |

#### EVENT DOWNLOAD - CALL DISCONNECTED 1.1.4B

Logically:

Event list: Call Disconnected  
 Device identities  
   Source device: ME  
   Destination device: UICC  
 Transaction identifier:  
   Ti value: 0 (bit 5-7)  
   Ti flag: 0 (bit 8)  
 Cause: radio link failure

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0C | 19 | 01 | 02 | 82 | 02 | 82 | 81 | 1C | 01 | 00 |
|          | 9A | 00 |    |    |    |    |    |    |    |    |    |    |

#### 27.22.7.3.1.5 Test requirement

The behaviour of the test is as defined in 'Expected Sequence 1.1'.

### 27.22.7.4 Location Status Event

#### 27.22.7.4.1 Location Status Event (normal)

##### 27.22.7.4.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.7.4.1.2 Conformance requirement

The ME shall support the EVENT: Location Status event as defined in:

- TS 31.111 [15] clause 5.2, 7.5 and clause 6.4.16

and

- UTRAN/GERAN for sequence 1.1
- E-UTRAN for sequence 1.2.

#### 27.22.7.4.1.3 Test purpose

To verify that the ME informs the UICC that an Event: MM\_IDLE state has occurred using the ENVELOPE (EVENT DOWNLOAD - Location Status) command.

To verify that the ME supporting E-UTRAN/EPC informs the UICC that an Event: EMM\_IDLE state has occurred using the ENVELOPE (EVENT DOWNLOAD - Location Status) command.

To verify that the ME supporting E-UTRAN/EPC correctly encodes the E-UTRAN Cell Id in the ENVELOPE (EVENT DOWNLOAD - Location Status) command.

#### 27.22.7.4.1.4 Method of test

##### 27.22.7.4.1.4.1 Initial conditions

For sequence 1.1 the ME is connected to the USIM Simulator and the USS.

The elementary files are coded as the USIM Application Toolkit default.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01 ;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

Two cells are defined. Cell 1 has location area code 1 and cell 2 has location area code 2.

MS is in service on Cell 1.

For sequence 1.2 the ME is connected to the USIM Simulator and the E-USS.

The default E-UTRAN/EPC UICC is used.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

The E-UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;

For cell 1:

- Tracking Area Code (TAC) = 0001;

- E-UTRAN Cell Id = 0001 (28 bits);

For cell 2:

- Tracking Area Code (TAC) = 0002;
- E-UTRAN Cell Id = 0002 (28 bits).

27.22.7.4.1.4.2 Procedure

**Expected Sequence 1.1(EVENT DOWNLOAD -LOCATION STATUS)**

| Step | Direction | Message / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1   |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.1.1  |   |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1  |   |
| 5    | USS       | Cell 1 is switched off   |   |
| 6    | ME → UICC | ENVELOPE: EVENT DOWNLOAD<br>- Location Status 1.1.1  |   |
| 7    | USS       | Cell 2 is switched on after Location<br>Status 'No service' has been<br>received in step 6                         |   |
| 8    | ME        | ME performs cell reselection to cell<br>2  |   |
| 9    | ME → USS  | LOCATION UPDATING<br>REQUEST or ROUTING AREA<br>UPDATE REQUEST   | The ME is CS and/or PS registered<br>depending on its capabilities  |
| 10   | USS → ME  | LOCATION UPDATING ACCEPT<br>or ROUTING AREA UPDATE<br>ACCEPT   |   |
| 11   | ME → USS  | TMSI REALLOCATION<br>COMPLETE or ROUTING AREA<br>UPDATE COMPLETE   |   |
| 12   | ME → UICC | ENVELOPE: EVENT DOWNLOAD<br>- Location Status 1.1.2A<br>or<br>ENVELOPE: EVENT DOWNLOAD<br>- Location Status 1.1.2B | [Option A shall apply for GERAN/UTRAN<br>parameters]<br>[Option B shall apply for PCS1900<br>parameters]<br>[Note: The inclusion of the location<br>information is optional: (If location status<br>indicates normal status)] |

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Location status

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 03 |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## EVENT DOWNLOAD - LOCATION STATUS 1.1.1

Logically:

Event list: Location status

## Device identities

Source device: ME  
 Destination device: UICC

Location status: No service

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B | 01 | 02 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## EVENT DOWNLOAD - LOCATION STATUS 1.1.2A

Logically:

Event list: Location status

## Device identities

Source device: ME  
 Destination device: UICC

Location status: normal service

## Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0002)  
 Cell ID Cell Identity Value (0002)  
 Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

|          |    |        |    |    |    |    |    |    |    |        |    |    |
|----------|----|--------|----|----|----|----|----|----|----|--------|----|----|
| BER-TLV: | D6 | Note 1 | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B     | 01 | 00 |
|          | 13 | Note 2 | 00 | F1 | 10 | 00 | 02 | 00 | 02 | Note 3 |    |    |

Note 1: Depending on the presence of the Extended Cell Identity Value the length is '13' or '15'

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified

## EVENT DOWNLOAD - LOCATION STATUS 1.1.2B

Logically:

|                      |  |
|----------------------|--|
| Event list:          | Location status                              |
| Device identities    |  |
| Source device:       | ME   |
| Destination device:  | UICC   |
| Location status:     | normal service                               |
| Location Information |  |
| MCC & MNC            | the mobile country and network code (001110) |
| LAC                  | the location Area Code (0002)                |
| Cell ID              | Cell Identity Value (0002)                   |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 13 | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B | 01 | 00 |
|          | 13 | 07 | 00 | 11 | 10 | 00 | 02 | 00 | 02 |    |    |    |

### Expected Sequence 1.2 (EVENT DOWNLOAD -LOCATION STATUS, E-UTRAN)

| Step | Direction  | Message / Action   | Comments                 |
|------|------------|--|--------------------------|
| 1    | ME         | The ME is registered to cell one and in EMM_IDLE                                     |                          |
| 2    | UICC → ME  | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST 1.1.1                                |                          |
| 3    | ME → UICC  | FETCH  |                          |
| 4    | UICC → ME  | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1   |                          |
| 5    | ME → UICC  | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1   |                          |
| 6    | E-USS      | Cell 1 is switched off   |                          |
| 7    | ME → UICC  | ENVELOPE: EVENT DOWNLOAD - Location Status 1.2.1                                     |                          |
| 8    | E-USS      | Cell 2 is switched on after Location Status 'No service' has been received in step 6 |                          |
| 9    | ME         | ME performs cell reselection to cell 2   |                          |
| 10   | ME → E-USS | ME performs EPS ATTACH or TRACKING AREA UPDATE procedure                             | [E-UTRAN cell 2 accepts] |
| 11   | ME         | ME reaches EMM_IDLE state  |                          |
| 12   | ME → UICC  | ENVELOPE: EVENT DOWNLOAD - Location Status 1.2.2                                     |                          |

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Same as PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 in sequence 1.1

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Same as Terminal Response: SET UP EVENT LIST 1.1.1 in sequence 1.1

EVENT DOWNLOAD - LOCATION STATUS 1.2.1

Logically:

|                     |                 |
|---------------------|-----------------|
| Event list:         | Location status |
| Device identities   |                 |
| Source device:      | ME              |
| Destination device: | UICC            |
| Location status:    | No service      |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B | 01 | 02 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## EVENT DOWNLOAD - LOCATION STATUS 1.2.2

Logically:

|                      |  |
|----------------------|--|
| Event list:          | Location status                              |
| Device identities    |  |
| Source device:       | ME   |
| Destination device:  | UICC   |
| Location status:     | normal service                               |
| Location Information |  |
| MCC & MNC            | the mobile country and network code (00F110) |
| TAC                  | 0002   |
| E-UTRAN cell id:     | 0002 (28bits)                                |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 15 | 19 | 01 | 03 | 82 | 02 | 82 | 81 | 1B | 01 | 00 |
|          | 13 | 09 | 00 | F1 | 10 | 00 | 02 | 00 | 00 | 00 | 2F |    |

## 27.22.7.4.1.5 Test requirement

The behaviour of the test shall be as defined in expected sequences 1.1 and 1.2.

## 27.22.7.5 User Activity Event

## 27.22.7.5.1 User Activity Event (normal)

## 27.22.7.5.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.7.5.1.2 Conformance Requirement

The ME shall support the EVENT DOWNLOAD -USER ACTIVITY as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.16, clause 6.8, clause 6.6.16, clause 6.11, clause 7.5, clause 8.6 and clause 8.25.

## 27.22.7.5.1.3 Test purpose

To verify that the ME performed correctly the procedure of USER ACTIVITY EVENT.

## 27.22.7.5.1.4 Method of Test

## 27.22.7.5.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.



## 27.22.7.5.1.4.2 Procedure

**Expected Sequence 1.1 (EVENT DOWNLOAD -USER ACTIVITY)**

See ETSI TS 102 384 [26] in subclause 27.22.7.5.1.4.2, Expected Sequence 1.1.

## 27.22.7.5.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

**27.22.7.6 Idle screen available event**

## 27.22.7.6.1 Idle Screen Available (normal)

## 27.22.7.6.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.7.6.1.2 Conformance requirement

The ME shall support the EVENT: IDLE SCREEN AVAILABLE event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

## 27.22.7.6.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Idle Screen Available has occurred using the ENVELOPE (EVENT DOWNLOAD - IDLE SCREEN AVAILABLE) command.

## 27.22.7.6.1.4 Method of test

## 27.22.7.6.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure and be in updated idle mode on the USS.

## 27.22.7.6.1.4.2 Procedure

**Expected Sequence 1.1 (EVENT DOWNLOAD - IDLE SCREEN AVAILABLE)**

See ETSI TS 102 384 [26] in subclause 27.22.7.6.1.4.2, Expected Sequence 1.1.

## 27.22.7.6.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

**27.22.7.7 Card reader status event**

## 27.22.7.7.1 Card Reader Status (normal)

## 27.22.7.7.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.7.7.1.2 Conformance requirement

The ME shall support the EVENT: Call Card Reader Status event as defined in:

- TS 31.111 [15] clause 4.7, clause 4.9, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, clause 8.25, clause 8.33, annex F, annex G, clause 8.25 and clause 8.7.

#### 27.22.7.7.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD - Card Reader Status) command.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen.

#### 27.22.7.7.1.4 Method of test

##### 27.22.7.7.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

##### 27.22.7.7.1.4.2 Procedure

#### **Expected Sequence 1.1 (EVENT DOWNLOAD, Card reader status, Card reader 1, card reader attached, no card inserted)**

See ETSI TS 102 384 [26] in subclause 27.22.7.7.1.4.2, Expected Sequence 1.1.

##### 27.22.7.7.1.5 Test requirement

The behaviour of the test is as defined in expected Sequence 1.1.

#### 27.22.7.7.2 Card Reader Status(detachable card reader)

##### 27.22.7.7.2.1 Definition and applicability

See clause 3.2.2.

##### 27.22.7.7.2.2 Conformance requirement

The ME shall support the EVENT: Call Card Reader Status event as defined in:

- TS 31.111 [15] clause 4.7, clause 4.9, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, clause 8.25, clause 8.33, annex F, annex G, clause 8.25 and clause 8.7.

##### 27.22.7.7.2.3 Test purpose

To verify that the ME informs the UICC that an Event: Card Reader Status has changed using the ENVELOPE (EVENT DOWNLOAD - Card Reader Status) command.

The ME-Manufacturer can assign the card reader identifier from 0 to 7.

This test applies for MEs with only one additional card reader.

In this particular case the card reader identifier 1 is chosen as an example.

##### 27.22.7.7.2.4 Method of test

##### 27.22.7.7.2.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

#### 27.22.7.7.2.4.2 Procedure

##### **Expected Sequence 2.1 (EVENT DOWNLOAD, Detachable reader, Card reader 1, detachable card reader not attached, no card inserted)**

See ETSI TS 102 384 [26] in subclause 27.22.7.7.2.4.2, Expected Sequence 2.1.

#### 27.22.7.7.2.5 Test requirement

The behaviour of the test is as defined in expected Sequence 2.1.

### 27.22.7.8 Language selection event

#### 27.22.7.8.1 Language selection event (normal)

##### 27.22.7.8.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.7.8.1.2 Conformance requirement

The ME shall support the EVENT: LANGUAGE SELECTION event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, and clause 8.25.

##### 27.22.7.8.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Language selection has occurred using the ENVELOPE (EVENT DOWNLOAD - LANGUAGE SELECTION ) command.

##### 27.22.7.8.1.4 Method of test

###### 27.22.7.8.1.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The current language shall have been set to English. Another language has to be supported, German is an example.

###### 27.22.7.8.1.4.2 Procedure

##### **Expected Sequence 1.1 (EVENT DOWNLOAD - LANGUAGE SELECTION)**

See ETSI TS 102 384 [26] in subclause 27.22.7.8.1.4.2, Expected Sequence 1.1.

#### 27.22.7.8.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

### 27.22.7.9 Browser termination event

#### 27.22.7.9.1 Browser termination (normal)

##### 27.22.7.9.1.1 Definition and applicability

This test is only applicable to ME's that support the EVENT: browser termination event driven information.

## 27.22.7.9.1.2 Conformance requirement

The ME shall support the EVENT: Browser termination event as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, , clause 8.25, clause 8.51, annex F and clause 8.7.

## 27.22.7.9.1.3 Test purpose

To verify that the ME informs the UICC of an Event: Browser termination using the ENVELOPE (EVENT DOWNLOAD - Browser Termination) command.

This test applies for MEs which have a browser.

## 27.22.7.9.1.4 Method of test

## 27.22.7.9.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

A valid access to a Wap gateway is required. The default browser parameters (IP address, gateway/proxy identity, called number...) of the tested mobile shall be properly filled to access that gateway.

The Bearer Parameters defined in 27.22.4.26.1.4.1 shall be used.

## 27.22.7.9.1.4.2 Procedure

**Expected Sequence 1.1 (EVENT DOWNLOAD - Browser termination)**

| Step | Direction | Message / Action  | Comments                            |
|------|-----------|---|-------------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING  |                                     |
| 2    | ME → UICC | FETCH   |                                     |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1  | [EVENT: Browser termination Status] |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1  | [Successfully]                      |
| 5    | User→ME   | Launch the browser with the URL selected by the user  |                                     |
| 6    | ME→USS    | The ME attempts to launch the session with the default browser parameters and the URL selected by the user. |                                     |
| 7    | User→ME   | Stop the session and the browser.   |                                     |
| 8    | ME→ UICC  | ENVELOPE: BROWSER TERMINATION 1.1.1   |                                     |

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Browser termination

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 |
|          | 99 | 01 | 08 |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

ENVELOPE: EVENT DOWNLOAD BROWSER TERMINATION 1.1.1

Logically:

Event list

Event 1: Browser termination

Device identities

Source device: ME  
 Destination device: UICC

Browser termination cause: User termination

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 99 | 01 | 08 | 82 | 02 | 82 | 81 | B4 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

### 27.22.7.9.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

### 27.22.7.10 Data available event

#### 27.22.7.10.1 Definition and applicability

See clause 3.2.2.

#### 27.22.7.10.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

Additionally the ME shall support ENVELOPE (EVENT DOWNLOAD - Data available).

#### 27.22.7.10.3 Test purpose

To verify that the ME shall send an ENVELOPE (EVENT DOWNLOAD - Data available) to the UICC after the ME receives a packet of data from the server by the BIP channel previously opened.

#### 27.22.7.10.4 Method of test

##### 27.22.7.10.4.1 Initial conditions

The ME is connected to the USIM Simulator and only connected to the USS if the USS is mentioned in the sequence table.. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure. The UICC must have sent the SET UP EVENT LIST to the ME to supply a set of events (event Data available).

For MEs supporting BIP related to 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 PROACTIVE COMMAND: SEND DATA 1.1.1 shall be performed successfully to detect the ME's port number, which has to be addressed by the network simulator when data has to be transmitted to the card. The corresponding Terminal Response shall be TERMINAL RESPONSE: SEND DATA 1.1.1.

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.

The following Bearer Parameters used are those defined in the default Test PDP context<sup>3</sup>, 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.

## 27.22.7.10.4.2 Procedure

**Expected sequence 1.1 (EVENT DOWNLOAD - Data available)**

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>OPEN CHANNEL 1.1.1   | See initial conditions           |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: OPEN<br>CHANNEL 1.1.1   | [Command performed successfully] |
| 4    | ME → USER | The ME may display channel opening<br>information  |                                  |
| 5    | ME → USS  | PDP context activation request   |                                  |
| 6    | USS → ME  | PDP context activation accept  |                                  |
| 7    | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B       |                                  |
| 8    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SEND DATA 1.1.1  |                                  |
| 9    | ME → UICC | FETCH  |                                  |
| 10   | UICC → ME | PROACTIVE COMMAND: SEND DATA<br>(immediate) 1.1.1  |                                  |
| 11   | ME → USS  | Transfer of 8 Bytes of data to the USS<br>through channel 1  | [To retrieve ME's port number]   |
| 12   | ME → UICC | TERMINAL RESPONSE: SEND DATA<br>(immediate) 1.1.1  | [Command performed successfully] |
| 13   | USS → ME  | Data sent through the BIP channel<br>using the ME's port number, which was<br>retrieved in step 11 |                                  |
| 14   | ME → UICC | ENVELOPE 1.1.1 (Event-Data<br>Available)   |                                  |

## 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: SEND DATA 1.1.1

## Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: UICC  
 Destination device: Channel 1

## Channel Data

Channel Data: 00 01 .. 07 (8 Bytes of data)

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 13 | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 81 | 21 | B6 |
|          | 08 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |    |    |    |

## TERMINAL RESPONSE: SEND DATA 1.1.1

## Logically:

## Command details

Command number: 1  
 Command type: SEND DATA  
 Command qualifier: Send Immediately

## Device identities

Source device: ME  
 Destination device: UICC

## Result

General Result: Command performed successfully  
 Channel data length: More than 255 bytes of space available in the Tx buffer

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 43 | 01 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B7 | 01 | FF |    |    |    |    |    |    |    |    |    |

## ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1

## Logically:

## Event list

Event: Data available

## Device identities

Source device: ME  
 Destination device: UICC

## Channel status

Channel status: Channel 1 open, link established  
 Channel Data Length  
 Channel data length: 8 Bytes available in Rx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 99 | 01 | 09 | 82 | 02 | 82 | 81 | B8 | 02 | 81 |
|          | 00 | B7 | 01 | 08 |    |    |    |    |    |    |    |    |

#### 27.22.7.10.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

### 27.22.7.11 Channel Status event

#### 27.22.7.11.1 Definition and applicability

See clause 3.2.2.

#### 27.22.7.11.2 Conformance requirements

The ME shall support the class "e" commands as defined in:

- TS 31.111 [15].

Additionally the ME shall support ENVELOPE (EVENT DOWNLOAD - Channel Status).

#### 27.22.7.11.3 Test purpose

To verify that the ME shall send an ENVELOPE (EVENT DOWNLOAD - Channel Status) to the UICC after the link dropped between the NETWORK and the ME.

#### 27.22.7.11.4 Method of test

##### 27.22.7.11.4.1 Initial conditions

The ME is connected to the USIM Simulator and the System Simulator. The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

For MEs supporting BIP related to 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, 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.

27.22.7.11.4.2 Procedure

**Expected sequence 1.1 (EVENT DOWNLOAD - Channel Status on a link dropped)**

| Step | Direction | MESSAGE / Action   | Comments                         |
|------|-----------|--|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP EVENT LIST 1.1.1  |                                  |
| 2    | ME → UICC | FETCH  |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.1.1  | [EVENT: channel status]          |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1  | [command performed successfully] |
| 5    | UICC → ME | PROACTIVE COMMAND PENDING:<br>OPEN CHANNEL 1.1.1   | See initial conditions           |
| 6    | ME → UICC | FETCH  |                                  |
| 7    | UICC → ME | PROACTIVE COMMAND: OPEN<br>CHANNEL 1.1.1   |                                  |
| 8    | ME → USER | The ME may display channel opening<br>information  |                                  |
| 9    | ME → USS  | PDP context activation request   |                                  |
| 10   | USS → ME  | PDP context activation accept  |                                  |
| 11   | ME → UICC | TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1A<br>or<br>TERMINAL RESPONSE: OPEN<br>CHANNEL 1.1.1B | [Command performed successfully] |
| 12   | USS → ME  | Link dropped   |                                  |
| 13   | ME → UICC | ENVELOPE 1.1.1 (Event-Channel<br>Status)   |                                  |

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Channel Status

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 |
|          | 99 | 01 | 0A |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: OPEN CHANNEL  
 Command qualifier: immediate link establishment

## Device identities

Source device: 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 |    |    |    |    |    |    |    |

## ENVELOPE: EVENT DOWNLOAD - Channel Status 1.1.1

## Logically:

## Event list

Event: Channel Status

## Device identities

Source device: ME  
 Destination device: UICC

## Channel status

Channel status: Channel 1, link dropped

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0B | 99 | 01 | 0A | 82 | 02 | 82 | 81 | B8 | 02 | 01 |
|          | 05 |    |    |    |    |    |    |    |    |    |    |    |

#### 27.22.7.11.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

### 27.22.7.12 Access Technology Change event

#### 27.22.7.12.1.1 Definition and applicability

See clause 3.2.2.

#### 27.22.7.12.1.2 Conformance requirement

The ME shall support the EVENT: Access Technology Change event E-UTRAN as defined in:

- TS 31.111 [15] clause 4.7, 4.12, 7.5.12 and clause 8.61.

#### 27.22.7.12.1.3 Test purpose

If the Access Technology Change event is part of the current event list (as set up by the last SET UP EVENT LIST command), then, when the terminal detects a change in its current access technology, verify that the terminal shall inform the UICC that this has occurred, by using the ENVELOPE (EVENT DOWNLOAD - Access Technology Change).

If the event is set up with support for multiple access technologies, the UICC shall be informed if any of the access technologies changes.

#### 27.22.7.12.1.4 Method of test

##### 27.22.7.12.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the UMTS System Simulator.

The default E-UTRAN/EPC UICC is used.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

The E-UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Tracking Area Code (TAC) = 0001;
- E-UTRAN Cell Identity value = 0001 (28 bits);

The UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;

**Expected Sequence 1.1 (EVENT DOWNLOAD – Access Technology Change, single access technology)**

| Step | Direction | Message / Action   | Comments  |
|------|-----------|--|---|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP EVENT LIST 1.1.1              |   |
| 2    | ME → UICC | FETCH  |   |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.1.1                      |   |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1                      |   |
| 5    | E-USS     | ME detects a change in its current<br>access technology            | E-UTRA cell is enabled and UTRA cell is<br>disabled |
| 6    | ME → UICC | ENVELOPE: EVENT DOWNLOAD –<br>Access technology change Event 1.1.1 | Access Technology = E-UTRAN                         |
| 7    | E-USS     | ME detects a change in its current<br>access technology            | E-UTRA cell is disabled and UTRA cell is<br>enabled |
| 8    | ME → UICC | ENVELOPE: EVENT DOWNLOAD –<br>Access technology change Event 1.1.2 | Access Technology = UTRAN                           |

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Access Technology Change (single access technology)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 0B |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

ENVELOPE: EVENT DOWNLOAD – Access Technology Change 1.1.1

Logically:

Event list: Access Technology Change (single access technology)

## Device identities

Source device: ME  
 Destination device: UICC  
 Access Technology: E-UTRAN

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 19 | 01 | 0B | 82 | 02 | 82 | 81 | 3F | 01 | 08 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

## ENVELOPE: EVENT DOWNLOAD – Access Technology Change 1.1.2

## Logically:

Event list: Access Technology Change (single access technology)  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Access Technology: UTRAN

## Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 19 | 01 | 0B | 82 | 02 | 82 | 81 | 3F | 01 | 03 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.2 (EVENT DOWNLOAD – Access Technology Change, multiple access technologies)**

TBD

27.22.7.13 Display parameter changed event

TBD

27.22.7.14 Local Connection event

TBD

27.22.7.15 Network search mode change event

27.22.7.15.1 Definition and applicability

See clause 3.2.2.

27.22.7.15.2 Conformance requirements

The ME shall support the network search mode mechanism, as described in TS 31.111 [15] clause 4.13.

27.22.7.11.3 Test purpose

To verify that the ME sends an ENVELOPE (EVENT DOWNLOAD – Network search mode change) to the UICC when network search mode is changed in ME.

27.22.7.11.4 Method of test

27.22.7.11.4.1 Initial conditions

The ME is connected to the USIM Simulator. The elementary files are coded as Toolkit default.



Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME is configured in automatic network search mode.

27.22.7.11.4.2 Procedure

**Expected sequence 1.1 (EVENT DOWNLOAD – Network search mode change)**

| Step | Direction | MESSAGE / Action  | Comments                         |
|------|-----------|---|----------------------------------|
| 1    | UICC → ME | PROACTIVE COMMAND PENDING:<br>SET UP EVENT LIST 1.1.1       |                                  |
| 2    | ME → UICC | FETCH   |                                  |
| 3    | UICC → ME | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.1.1               | [EVENT: network search mode]     |
| 4    | ME → UICC | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1               | [command performed successfully] |
| 5    | User      | The user sets the ME to manual<br>network selection mode    |                                  |
| 6    | ME → UICC | ENVELOPE 1.1.1 (Event - Network<br>search mode change)      | [changed to manual]              |
| 7    | User      | The user sets the ME to automatic<br>network selection mode |                                  |
| 8    | ME → UICC | ENVELOPE 1.1.2 (Event - Network<br>search mode change)      | [changed to automatic]           |

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Network search mode change

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 |
|          | 99 | 01 | 0E |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

ENVELOPE: EVENT DOWNLOAD – Network search mode change 1.1.1

Logically:

Event list  
 Event: Network search mode change  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Network search mode  
 Network search mode: manual

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 99 | 01 | 0E | 82 | 02 | 82 | 81 | E5 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

ENVELOPE: EVENT DOWNLOAD – Network search mode change 1.1.2

Logically:

Event list  
 Event: Network search mode change  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Network search mode  
 Network search mode: automatic

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0A | 99 | 01 | 0E | 82 | 02 | 82 | 81 | E5 | 01 | 01 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

#### 27.22.7.11.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

#### 27.22.7.16 Browsing status event

TBD

#### 27.22.7.17 Network Rejection Event

##### 27.22.7.17.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.7.17.1.2 Conformance requirement

The ME shall support the EVENT: Network Rejection event E-UTRAN as defined in:

- TS 31.111 [15] clause 4.7, 5.2, 7.5.2, 8.62 and clause 8.99.

##### 27.22.7.17.1.3 Test purpose

To verify that the ME informs the UICC with the Event Network Rejection about the Network Rejection.

To verify that the Rejection Cause Code sent to the UICC is the value from the EMM cause information element received from the E-UTRAN.

To verify that the correct Access Technology is indicated ENVELOPE: EVENT DOWNLOAD – Network Rejection after the unsuccessful attempt to access the E-UTRAN.

To verify that the correct Update/Attach Type is indicated ENVELOPE: EVENT DOWNLOAD – Network Rejection.

#### 27.22.7.17.1.4 Method of test

##### 27.22.7.17.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the E-USS.

The default E-UTRAN/EPC UICC is used.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

The E-UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Tracking Area Code (TAC) = 0001;

##### 27.22.7.17.1.4.2 Procedure

#### Expected Sequence 1.1 (EVENT DOWNLOAD – Network Rejection, ATTACH REJECT)

| Step | Direction  | Message / Action   | Comments |
|------|------------|--|----------|
| 1    | E-USS      | No E-UTRAN available   |          |
| 2    | USER → ME  | Switch on the terminal   |          |
| 3    | UICC → ME  | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1                                 |          |
| 4    | ME → UICC  | FETCH  |          |
| 5    | UICC → ME  | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.1.1  |          |
| 6    | ME → UICC  | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1  |          |
| 7    | E-USS      | The E-UTRAN cell is switched on  |          |
| 8    | USER → ME  | The terminal is made to start a<br>registration attempt to the E-USS                     |          |
| 9    | ME → E-USS | The terminal requests RRC<br>CONNECTION and therefore<br>starts the EPS Attach procedure |          |
| 10   | E-USS → ME | The E-USS sends EMM ATTACH<br>REJECT with cause "PLMN not<br>allowed"                    |          |
| 11   | ME → UICC  | ENVELOPE: EVENT DOWNLOAD<br>– Network Rejection 1.1.1 or 1.1.2                           |          |

#### PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

##### Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

##### Device identities

Source device: UICC  
 Destination device: ME

Event list

Event 1: Network Rejection

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 12 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

ENVELOPE: EVENT DOWNLOAD – Network Rejection 1.1.1

Logically:

Event list: Network Rejection

Device identities

Source device: Network  
 Destination device: UICC

Tracking Area Identification

MCC: 001  
 MNC: 01  
 TAC: 0001

Access Technology: E-UTRAN

Update/Attach Type: EPS Attach

Rejection Cause Code: PLMN not allowed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 17 | 19 | 01 | 12 | 82 | 02 | 83 | 81 | 7D | 05 | 00 |
|          | F1 | 10 | 00 | 01 | 3F | 01 | 08 | 74 | 01 | 09 | 75 | 01 |
|          | 0B |    |    |    |    |    |    |    |    |    |    |    |

ENVELOPE: EVENT DOWNLOAD – Network Rejection 1.1.2

Logically:

Event list: Network Rejection

Device identities

Source device: Network  
 Destination device: UICC

Tracking Area Identification

MCC: 001  
 MNC: 01  
 TAC: 0001

Access Technology: E-UTRAN  
 Update/Attach Type: Combined EPS/IMSI Attach  
 Rejection Cause Code: PLMN not allowed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 17 | 19 | 01 | 12 | 82 | 02 | 83 | 81 | 7D | 05 | 00 |
|          | F1 | 10 | 00 | 01 | 3F | 01 | 08 | 74 | 01 | 0A | 75 | 01 |
|          | 0B |    |    |    |    |    |    |    |    |    |    |    |

### Expected Sequence 1.2 (EVENT DOWNLOAD – Network Rejection, TRACKING AREA UPDATE REJECT)

| Step | Direction  | Message / Action   | Comments  |
|------|------------|--|---|
| 1    | ME         | The ME is registered to the E-USS and in EMM_IDLE                                  | The E-USS transmits on cell 1 :<br>MCC: 001<br>MNC: 01<br>TAC: 0003 |
| 2    | E-USS      | Cell 1 is switched off   |   |
| 3    | UICC → ME  | PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1                                 |   |
| 4    | ME → UICC  | FETCH  |   |
| 5    | UICC → ME  | PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1   |   |
| 6    | ME → UICC  | TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1   |   |
| 7    | E-USS      | The E-UTRAN cell 2 is switched on  | The E-USS transmits on cell 2 :<br>MCC: 001<br>MNC: 01<br>TAC: 0001 |
| 8    | ME         | The terminal is made to start a re-registration attempt to the E-USS               |   |
| 9    | ME → E-USS | The terminal send TRACKING AREA UPDATE REQUEST                                     |   |
| 10   | E-USS → ME | The E-USS sends TRACKING AREA UPDATE REJECT with cause "TRACKING AREA not allowed" |   |
| 11   | ME → UICC  | ENVELOPE: EVENT DOWNLOAD – Network Rejection 1.2.1 or 1.2.2                        |   |

#### EVENT DOWNLOAD –Network Rejection 1.2.1

Logically:

Event list: Network Rejection  
 Device identities  
 Source device: Network  
 Destination device: UICC  
 Tracking Area Identification  
 MCC: 001  
 MNC: 01  
 TAC: 0001  
 Access Technology: E-UTRAN  
 Update/Attach Type: TA Updating  
 Rejection Cause Code: Tracking Area not allowed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 17 | 19 | 01 | 12 | 82 | 02 | 83 | 81 | 7D | 05 | 00 |
|          | F1 | 10 | 00 | 01 | 3F | 01 | 08 | 74 | 01 | 0B | 75 | 01 |
|          | 0C |    |    |    |    |    |    |    |    |    |    |    |

## EVENT DOWNLOAD –Network Rejection 1.2.2

Logically:

|                              |                           |
|------------------------------|---------------------------|
| Event list:                  | Network Rejection         |
| Device identities            |                           |
| Source device:               | Network                   |
| Destination device:          | UICC                      |
| Tracking Area Identification |                           |
| MCC:                         | 001                       |
| MNC:                         | 01                        |
| TAC:                         | 0001                      |
| Access Technology:           | E-UTRAN                   |
| Update/Attach Type:          | Combined TA/LA updating   |
| Rejection Cause Code:        | Tracking Area not allowed |

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 17 | 19 | 01 | 12 | 82 | 02 | 83 | 81 | 7D | 05 | 00 |
|          | F1 | 10 | 00 | 01 | 3F | 01 | 08 | 74 | 01 | 0C | 75 | 01 |
|          | 0C |    |    |    |    |    |    |    |    |    |    |    |

## 27.22.7.17.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 and 1.2.

## 27.22.7.18 CSG Cell Selection event

## 27.22.7.18.1 CSG Cell Selection (normal)

## 27.22.7.18.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.7.18.1.2 Conformance requirement

The ME shall support the EVENT: CSG Cell selection as defined in:

- TS 31.111 [15] clause 4.7, clause 5.2, clause 6.4.16, clause 6.8, clause 7.5, clause 8.25, 8.101, 8.102, 8.103.

## 27.22.7.18.1.3 Test purpose

To verify that the ME informs the UICC that an Event: CSG Cell selection has occurred using the ENVELOPE (EVENT DOWNLOAD - CSG Cell selection) command when the ME detects a change in its current CSG cell selection status.

## 27.22.7.18.1.4 Method of test

## 27.22.7.18.1.4.1 Initial conditions

The ME is connected to the USIM Simulator and the E-USS.

The ME shall be powered on and perform the PROFILE DOWNLOAD procedure.

The E-USS transmits on three cells:

Network parameters of cell 1 :

- TAI (MCC/MNC/TAC): 246/081/0001.
- Access control: unrestricted.
- csg-Indication: TRUE
- csg-Identity: 01
- Broadcast information: Cell 3 is included in the neighbour list information.

Network parameters of cell 2:

- TAI (MCC/MNC/TAC): 246/081/0002.
- Access control: unrestricted.
- csg-Indication: TRUE
- csg-Identity: 02
- Home (e)NB Name HOME 02

Network parameters of cell 3:

- TAI (MCC/MNC/TAC): 246/081/0003.
- Access control: unrestricted.
- csg-Indication: FALSE

Network parameters of cell 4 :

- TAI (MCC/MNC/TAC): 246/081/0004.
- Access control: unrestricted.
- csg-Indication: TRUE
- csg-Identity: 04
- Broadcast information: Cell 3 is included in the neighbour list information.
- Home (e)NB Name HOME 04

Cell 1, Cell 2 and Cell 4 are initially disabled. Cell 3 is enabled.

The default E-UTRAN/EPC UICC, the default E-UTRAN parameters and the following parameters are used:

#### **EF<sub>UST</sub> (USIM Service Table)**

EF<sub>UST</sub> shall be configured as defined in 27.22.2B.1 with the exception that Service 86 "Allowed CSG Lists and corresponding indications" is available.

#### **EF<sub>ACSGL</sub> (Allowed CSG Lists)**

Logically:

1<sup>st</sup> CSG list

PLMN: 246 081 (MCC MNC)  
 1<sup>st</sup> CSG list 1<sup>st</sup> CSG Type indication 01  
 1<sup>st</sup> CSG list 1<sup>st</sup> CSG HNB Name indication 01  
 1<sup>st</sup> CSG list 1<sup>st</sup> CSG CSG ID: 01 (27bit)  
 2<sup>nd</sup> CSG list 2<sup>nd</sup> CSG Type indication 01  
 2<sup>nd</sup> CSG list 2<sup>nd</sup> CSG HNB Name indication 01  
 2<sup>nd</sup> CSG list 2<sup>nd</sup> CSG CSG ID: 04 (27bit)

|         |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Byte:   | B01 | B02 | B03 | B04 | B05 | B06 | B07 | B08 | B09 | B10 |
| Coding: | A0  | 15  | 80  | 03  | 42  | 16  | 80  | 81  | 06  | 01  |
|         | B11 | B12 | B13 | B14 | B15 | B16 | B17 | B18 | B19 | B20 |
|         | 01  | 00  | 00  | 00  | 3F  | 81  | 06  | 01  | 01  | 00  |
|         | B21 | B22 | B23 |     |     |     |     |     |     |     |
|         | 00  | 00  | 9F  |     |     |     |     |     |     |     |

All other records are empty.

### EF<sub>CSGT</sub> (CSG Type)

Record 1:

Logically: Group ONE

|         |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Byte:   | B01 | B02 | B03 | B04 | B05 | B06 | B07 | B08 | B09 | B10 |
| Coding: | 89  | 13  | 80  | 00  | 47  | 00  | 72  | 00  | 6F  | 00  |
|         | B11 | B12 | B13 | B14 | B15 | B16 | B17 | B18 | B19 | B20 |
|         | 75  | 00  | 70  | 00  | 20  | 00  | 4F  | 00  | 4E  | 00  |
|         | B21 | B22 | B23 | B24 | B25 | B26 | B27 | B28 | B29 | B30 |
|         | 45  | FF  | FF  | FF  | FF  | FF  | FF  | FF  | FF  | FF  |

### EF<sub>HNB</sub> (Home (e)NodeB Name)

Record 1:

Logically: Home ONE

|         |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Byte:   | B01 | B02 | B03 | B04 | B05 | B06 | B07 | B08 | B09 | B10 |
| Coding: | 80  | 11  | 80  | 00  | 48  | 00  | 6F  | 00  | 6D  | 00  |
|         | B11 | B12 | B13 | B14 | B15 | B16 | B17 | B18 | B19 | B20 |
|         | 65  | 00  | 20  | 00  | 4F  | 00  | 4E  | 00  | 45  | FF  |
|         | B21 | B22 | B23 | B24 | B25 | B26 | B27 | B28 | B29 | B30 |
|         | FF  | FF  | FF  | FF  | FF  | FF  | FF  | FF  | FF  | FF  |



## 27.22.7.18.1.4.2 Procedure

**Expected Sequence 1.1 (EVENT DOWNLOAD - CSG Cell Selection event)**

| Step | Direction  | Message / Action   | Comments  |
|------|------------|--|---|
| 1    | ME         | The ME is registered to cell 3 and in EMM_IDLE   | Cell 3 = macro cell   |
| 2    | UICC → ME  | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST 1.1.1  |   |
| 3    | ME → UICC  | FETCH  |   |
| 4    | UICC → ME  | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.1.1  |   |
| 5    | ME → UICC  | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1  |   |
| 6    | E-USS      | Cell 2 is enabled  |   |
| 7    | User → ME  | A manual CSG cell selection is<br>performed. CSG ID=02 is selected.  |   |
| 8    | E-USS → ME | <i>AttachReject</i> with rejection cause<br>#25 (not authorized for this CSG)  | No ENVELOPE command is sent.                                  |
| 9    | E-USS      | Cell 2 is disabled<br>Cell 1 is enabled  |   |
| 10   | User → ME  | A manual CSG cell selection is<br>performed. CSG ID=01 is selected.  |   |
| 11   | ME → UICC  | ENVELOPE: EVENT DOWNLOAD<br>– CSG Cell selection 1.1.1A<br>OR<br>ENVELOPE: EVENT DOWNLOAD<br>– CSG Cell selection 1.1.1B | Camping on CSG cell, CSG ID=01                                |
| 12   | E-USS      | Cell 1 is disabled   |   |
| 13   | ME → UICC  | ENVELOPE: EVENT DOWNLOAD<br>– CSG Cell selection 1.1.2   | Leaving CSG cell with CSG ID=01.<br>Not camped on a CSG cell. |
| 14   | E-USS      | Cell 4 is enabled  |   |
| 15   | User → ME  | A manual CSG cell selection is<br>performed. CSG ID=04 is selected.  |   |
| 16   | ME → UICC  | ENVELOPE: EVENT DOWNLOAD<br>– CSG Cell selection 1.1.3A<br>OR<br>ENVELOPE: EVENT DOWNLOAD<br>– CSG Cell selection 1.1.3B | Camping on CSG cell, CSG ID=04                                |

## PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: UICC  
 Destination device: ME

## Event list

Event 1: '15' CSG Cell selection Event

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 01 | 15 |    |    |    |    |    |    |    |    |    |    |

## TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

### EVENT DOWNLOAD – CSG CELL SELECTION 1.1.1A

Logically:

Event list

Event 1: CSG Cell selection

Device identities

Source device: Network  
 Destination device: UICC

Access Technology

Technology : E-UTRAN

CSG Cell selection status:

Byte 1 = '01' (camped on a CSG or Hybrid cell of the Operator CSG list or Allowed CSG list), additional information not available

CSG id

01 (27 bit)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 14 | 19 | 01 | 15 | 82 | 02 | 83 | 81 | 3F | 01 | 08 |
|          | 55 | 02 | 01 | 00 | 56 | 04 | 00 | 00 | 00 | 3F |    |    |

### EVENT DOWNLOAD – CSG CELL SELECTION 1.1.1B

Logically:

Event list

Event 1: CSG Cell selection

Device identities

Source device: Network  
 Destination device: UICC

Access Technology

Technology : E-UTRAN

CSG Cell selection status:

Byte 1 = "01" (camped on a CSG or Hybrid cell of the Operator CSG list or Allowed CSG list), additional information: result of a manual CSG cell selection.

CSG id

01 (27 bit)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 14 | 19 | 01 | 15 | 82 | 02 | 83 | 81 | 3F | 01 | 08 |
|          | 55 | 02 | 01 | 41 | 56 | 04 | 00 | 00 | 00 | 3F |    |    |

### EVENT DOWNLOAD – CSG CELL SELECTION 1.1.2

Logically:

Event list  
 Event 1: CSG Cell selection  
 Device identities  
 Source device: Network  
 Destination device: UICC  
 Access Technology  
 Technology : E-UTRAN  
 CSG Cell selection status : Byte 1 = '00' (Not camped on a CSG or Hybrid cell), additional information not available

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 19 | 01 | 15 | 82 | 02 | 83 | 81 | 3F | 01 | 08 |
|          | 55 | 02 | 00 | 00 |    |    |    |    |    |    |    |    |

#### EVENT DOWNLOAD – CSG CELL SELECTION 1.1.3A

Logically:

Event list  
 Event 1: CSG Cell selection  
 Device identities  
 Source device: Network  
 Destination device: UICC  
 Access Technology  
 Technology : E-UTRAN  
 CSG Cell selection status: Byte 1 = '01' (camped on a CSG or Hybrid cell of the Operator CSG list or Allowed CSG list), additional information not available  
 CSG id  
 HNB name "HOME 04"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 25 | 19 | 01 | 15 | 82 | 02 | 83 | 81 | 3F | 01 | 08 |
|          | 55 | 02 | 01 | 00 | 56 | 04 | 00 | 00 | 00 | 9F | 57 | 0F |
|          | 80 | 00 | 48 | 00 | 4F | 00 | 4D | 00 | 45 | 00 | 20 | 00 |
|          | 30 | 00 | 34 |    |    |    |    |    |    |    |    |    |

#### EVENT DOWNLOAD – CSG CELL SELECTION 1.1.3B

Logically:

Event list  
 Event 1: CSG Cell selection  
 Device identities  
 Source device: Network  
 Destination device: UICC  
 Access Technology  
 Technology : E-UTRAN  
 CSG Cell selection status: Byte 1 = '01' (camped on a CSG or Hybrid cell of the Operator CSG list or Allowed CSG list), additional information: result of a manual CSG cell selection.  
 CSG id  
 HNB name "HOME 04"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 25 | 19 | 01 | 15 | 82 | 02 | 83 | 81 | 3F | 01 | 08 |
|          | 55 | 02 | 01 | 41 | 56 | 04 | 00 | 00 | 00 | 9F | 57 | 0F |
|          | 80 | 00 | 48 | 00 | 4F | 00 | 4D | 00 | 45 | 00 | 20 | 00 |
|          | 30 | 00 | 34 |    |    |    |    |    |    |    |    |    |

#### 27.22.7.18.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

### 27.22.7.19 IMS registration event

It is expected that the IMS registration event will not be used separately, but always in combination with the Incoming IMS Data Event and further features which are required for UICC access to IMS.

The IMS registration event is therefore tested in 27.22.4.27.7.1 and 27.22.7.20

### 27.22.7.20 Incoming IMS data event

#### 27.22.7.20.1 Incoming IMS data (normal)

##### 27.22.7.20.1.1 Definition and applicability

See clause 3.2.2.

##### 27.22.7.20.1.2 Conformance requirement

The ME shall support:

- the EVENT Incoming IMS DATA 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 8.110.
- 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.the EVENT: Data available 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 8.56, clause 8.57.
- 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 EF<sub>UICCIARI</sub> reading procedure as defined in:

- TS 31.103 [35] clause 4.2.16

Additionally the ME shall be able to carry out the IMS registration procedure according to TS 34.229-1 [36], Annex C.2.

#### 27.22.7.20.1.3 Test purpose

To verify that the ME informs the UICC that an Event: Incoming IMS data has occurred using the ENVELOPE (EVENT DOWNLOAD – Incoming IMS data) command when the ME received a SIP message for the card, including an UICC IARI.

27.22.7.20.1.4 Method of test

27.22.7.20.1.4.1 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 ME activates the required bearer, discovers P-CSCF and registers with the value from the ISIM to IMS services. The ME has registered the IARI associated with active applications intalled on the UICC, stored in EF\_UICCIARI on the ISIM.

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 E-UTRAN/EPC ISIM-UICC with the following exeptions is used:

#### EF<sub>IST</sub> (ISIM Service Table)

EF<sub>IST</sub> shall be configured as defined in 27.22.2C.3.2 with the exception that Service 10 "Support of UICC access to IMS" is available.

#### EF<sub>UICCIARI</sub> (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  |

## 27.22.7.20.1.4.2 Procedure

**Expected Sequence 1.1 (EVENT DOWNLOAD – Incoming IMS data, IMS Registration and Data available event, IARI list stored on the ISIM)**

| Step | Direction            | Message / Action   | Comments   |
|------|----------------------|--|--|
| 1    | UICC → ME            | PROACTIVE COMMAND<br>PENDING: SET UP EVENT LIST<br>1.1.1   | [As response to the TERMINAL PROFILE<br>command]   |
| 2    | ME → UICC            | FETCH  |  |
| 3    | UICC → ME            | PROACTIVE COMMAND: SET UP<br>EVENT LIST 1.1.1  |  |
| 4    | ME → UICC            | TERMINAL RESPONSE: SET UP<br>EVENT LIST 1.1.1  | [The ME will read the ISIM Service Table and<br>the UICC IARI list on the ISIM before it will<br>attempt the initial registration to the IMS<br>network]   |
| 5    | ME → NWS<br>NWS → ME | ME attempts to register to IMS<br>services with values derived from<br>the ISIM and additionally registers<br>the IARI from EF <sub>UICCIARI</sub> during the<br>initial registration or subsequent<br>registration to IMS services. | [Initial registration to the IMS network is<br>performed according to TS 34.229-1 [36],<br>Annex C.2]  |
| 6    | ME → UICC            | ENVELOPE: EVENT DOWNLOAD<br>– IMS registration 1.1.1   | [After the IARI "urn:ur-7:3gpp-<br>application.ims.iari.uicctest" has been<br>successfully registered during the initial or a<br>subsequent SIP REGISTER message<br>containing this IARI.<br><br>If the IARI "urn:ur-7:3gpp-<br>application.ims.iari.uicctest" is not registered<br>during the initial registration to the IMS<br>network further Envelopes – Event Download<br>– IMS Registration without the IARI might<br>have been received. These shall be ignored<br>by the USIM Simulator.] |
| 7    | NWS → ME             | IMS network sends SIP INVITE<br>message with UICC IARI   |  |
| 8    | ME → UICC            | ENVELOPE: EVENT DOWNLOAD<br>– Incoming IMS data 1.1.1  |  |
| 9    | UICC → ME            | PROACTIVE COMMAND<br>PENDING: OPEN CHANNEL 1.1.1   |  |
| 10   | ME → UICC            | FETCH  |  |
| 11   | UICC → ME            | PROACTIVE COMMAND : OPEN<br>CHANNEL for IMS 1.1.1  |  |
| 12   | ME                   | Channel id, buffer assigned  |  |
| 13   | ME → UICC            | TERMINAL RESPONSE : OPEN<br>CHANNEL for IMS 1.1.1  | [Command performed successfully]   |
| 14   | ME → UICC            | ENVELOPE: EVENT DOWNLOAD<br>– Data Available 1.1.1   |  |
| 15   | UICC → ME            | PROACTIVE COMMAND<br>PENDING: RECEIVE DATA 1.1.1   |  |
| 16   | ME → UICC            | FETCH  |  |
| 17   | UICC → ME            | PROACTIVE COMMAND:<br>RECEIVE DATA 1.1.1   |  |
| 18   | ME → UICC            | TERMINAL RESPONSE:<br>RECEIVE DATA 1.1.1   | Contains SIP message received in step 7  |

## PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SET UP EVENT LIST  
 Command qualifier: '00'

## Device identities

Source device: UICC  
 Destination device: ME

## Event list

Event 1: IMS Registration  
 Event 2: Incoming IMS data Event  
 Event 3: Data available

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0E | 81 | 03 | 01 | 05 | 00 | 82 | 02 | 81 | 82 | 99 |
|          | 03 | 17 | 18 | 09 |    |    |    |    |    |    |    |    |

## EVENT DOWNLOAD - IMS Registration 1.1.1

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 |
| <p>Note 1: The TLV length depends on the IMPU list content<br/>         Note 2: The IMPU TLV length depends on the IMPU list entries.<br/>         Note 3: The IMPU list shall contain the IMPU "urn:ur-7:3gpp-application.ims.iari.uicctest" and might contain further IMPUs</p> |    |        |    |    |    |    |    |    |    |    |        |        |

## ENVELOPE: EVENT DOWNLOAD - Data available 1.1.1

Logically:

## Event list

Event: Data available

## Device identities

Source device: ME  
 Destination device: UICC

## Channel status

Channel status: Channel 1 open, link established

## Channel Data Length

Channel data length: 200 Bytes available in Rx buffer

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D6 | 0E | 99 | 01 | 09 | 82 | 02 | 82 | 81 | B8 | 02 | 81 |
|          | 00 | B7 | 01 | C8 |    |    |    |    |    |    |    |    |

PROACTIVE COMMAND: OPEN CHANNEL for IMS 1.1.1

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 1.1.1

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 |    |    |    |    |

PROACTIVE COMMAND: RECEIVE DATA 1.1.1

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: UICC  
 Destination device: Channel 1



Channel Data Length

Channel Data Length: 200

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 0C | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 81 | 21 | B7 |
|          | 01 | C8 |    |    |    |    |    |    |    |    |    |    |

TERMINAL RESPONSE: RECEIVE DATA 1.1.1

Logically:

Command details

Command number: 1  
 Command type: RECEIVE DATA  
 Command qualifier: RFU

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Command performed successfully  
 Channel Data : 200 Bytes of data, includes SIP message  
 Channel data length: 00

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 42 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|          | B6 | 81 | C8 | ab | cd | ef | .. | xy | B7 | 01 | 00 |    |

Note: The content of the channel data is not tested.

#### 27.22.7.20.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1.

## 27.22.8 MO SHORT MESSAGE CONTROL BY USIM

### 27.22.8.1 Definition and applicability

See clause 3.2.2.

### 27.22.8.2 Conformance requirement

The ME shall support the MO SEND SHORT MESSAGE CONTROL facility as defined in:

- TS 31.111 [15] clause 7.3.2.

The ME shall also support the SEND SMS facility as specified in

- TS 31.111 [15] clause 6.4.10

### 27.22.8.3 Test purpose

To verify that for all SMS sending attempts, even those resulting from a SEND SHORT MESSAGE proactive UICC command, the ME shall first pass the RP\_destination\_address of the service center and the TP\_Destination\_Address to the UICC, using the ENVELOPE (MO Short Message CONTROL).

To verify that if the UICC responds with '90 00', the ME shall send the SMS with the address unchanged.

To verify that if the UICC responds with '93 00', the ME shall not send the SMS and may retry the command.

To verify that if the UICC returns response data, the ME shall use the response data appropriately to send the SM as proposed, not send the SM, or send the SM using the data supplied by the UICC.

To verify that, in the case where the initial SM request results from a proactive SEND SHORT MESSAGE, if the MO SMS CONTROL result is "not allowed" or "allowed with modifications", the ME shall inform the UICC using TERMINAL RESPONSE "interaction with call control by UICC or MO short message control by USIM, action not allowed".

## 27.22.8.4 Method of tests

### 27.22.8.4.1 Initial conditions

The ME is connected to the System Simulator and the USIM Simulator.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The MO SMS control service is available in the USIM Service Table.

The SMS service center address in the ME shall be set to '+112233445566778' prior to the execution of the tests.

The GERAN/UTRAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;

The PCS 1900 parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 011;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001.

## 27.22.8.4.2 Procedure

**Expected Sequence 1.1 (MO SM CONTROL BY USIM , with Proactive command, Allowed, no modification')**

| Step | Direction  | Message / Action   | Comments   |
|------|------------|--|--|
| 1    | UICC -> ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1  |  |
| 2    | ME -> UICC | FETCH  |  |
| 3    | UICC -> ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1  |  |
| 4    | ME -> USER | Display "Send SM"  | [Alpha Identifier]   |
| 5    | ME -> UICC | ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A<br>Or<br>ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 6    | UICC -> ME | MO SMS CONTROL RESULT 1.1.1  | [ 'Allowed, no modification']  |
| 7    | ME -> USS  | Send SMS-PP Message 1.1  | [The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]      |
| 8    | USS -> ME  | SMS RP-ACK   |  |
| 9    | ME -> UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1  |  |

## PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1

Logically:

## Command details

Command number: 1  
 Command type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

## Device identities

Source device: UICC  
 Destination device: Network  
 Alpha identifier: "Send SM"

## Address

TON: International number  
 NPI: "ISDN / telephone numbering plan"  
 Dialling number string "112233445566778"

## SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "00"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345678"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding 8-bit data  
 Message class class 0  
 TP-UDL 12  
 TP-UD "Test Message"

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D0 | 37 | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 81 | 83 | 85 |
|          | 07 | 53 | 65 | 6E | 64 | 20 | 53 | 4D | 86 | 09 | 91 | 11 |
|          | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 8B | 18 | 01 | 00 | 09 |
|          | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C | 54 | 65 | 73 |
|          | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |    |    |    |

## SMS-PP (SEND SHORT MESSAGE) Message 1.1

Logically:

## SMS RPDU

RP-Originator Address not used  
 RP-Destination SMSC Address  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "112233445566778"

## SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "01"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345678"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding 8-bit data  
 Message class class 0  
 TP-UDL 12  
 TP-UD "Test Message"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 00 | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F8 | 18 |
|        | 01 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | 40 | F4 | 0C |
|        | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |

## ENVELOPE MO SHORT MESSAGE CONTROL 1.1.1A

Logically:

## Device identities

Source device: ME  
 Destination device: UICC

## RP Destination Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string '112233445566778'

## TP Destination Address

TON: International  
 NPI: "ISDN / telephone numbering plan" or "unknown"  
 Dialling number string '012345678'

## Location Information

MCC & MNC the mobile country and network code (00F110)  
 LAC the location Area Code (0001)  
 Cell ID Cell Identity Value (0001)  
 Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

|        |    |        |    |    |        |    |    |    |    |    |    |
|--------|----|--------|----|----|--------|----|----|----|----|----|----|
| Coding | D5 | Note 1 | 02 | 02 | 82     | 81 | 06 | 09 | 91 | 11 | 22 |
|        | 33 | 44     | 55 | 66 | 77     | F8 | 06 | 06 | 91 | 10 | 32 |
|        | 54 | 76     | F8 | 13 | Note 2 | 00 | F1 | 10 | 00 | 01 | 00 |
|        | 01 | Note 3 |    |    |        |    |    |    |    |    |    |

Note 1: Length of BER-TLV is '20' plus the actual length of all the present optional SIMPLE-TLV data objects.

Note 2: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note 3: The Extended Cell Identity Value is present in Rel-4 and onwards implementations, the values of the two bytes shall not be verified.

#### ENVELOPE MO SHORT MESSAGE CONTROL 1.1.1B

Logically:

##### Device identities

Source device: ME  
Destination device: UICC

##### RP Destination Address

TON: International  
NPI: "ISDN / telephone numbering plan" or "unknown"  
Dialling number string '112233445566778'

##### TP Destination Address

TON: International  
NPI: "ISDN / telephone numbering plan" or "unknown"  
Dialling number string '012345678'

##### Location Information

MCC & MNC the mobile country and network code (001110)  
LAC the location Area Code (0001)  
Cell ID Cell Identity Value (0001)

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | D5 | 20 | 02 | 02 | 82 | 81 | 06 | 09 | 91 | 11 | 22 |
|          | 33 | 44 | 55 | 66 | 77 | F8 | 06 | 06 | 91 | 10 | 32 |
|          | 54 | 76 | F8 | 13 | 07 | 00 | 11 | 10 | 00 | 01 | 00 |
|          | 01 |    |    |    |    |    |    |    |    |    |    |

#### MO SHORT MESSAGE CONTROL RESULT 1.1.1

Logically:

MO Short Message control result : '00' = Allowed, no modification

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 00 | 00 |
|----------|----|----|

#### TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1

Logically:

##### Command details

Command number: 1  
Command type: SEND SHORT MESSAGE  
Command qualifier: packing not required

##### Device identities

Source device: ME  
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.2 (MO SM CONTROL BY USIM , with user SMS, Allowed, no modification')**

| Step | Direction  | Message / Action   | Comments   |
|------|------------|--|--|
| 1    | USER -> ME | The user makes a SMS with the user data 'Test Message' and sends it to +012345678.           | [The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2. |
| 2    | ME -> UICC | ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A<br>or<br>ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]                           |
| 3    | UICC -> ME | MO SHORT MESSAGE CONTROL RESULT 1.1.1  | [ 'Allowed, no modification']  |
| 4    | ME -> USS  | Send SMS-PP Message 1.2  | [The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.2 without modification]                                |
| 5    | USS -> ME  | SMS RP-ACK   |  |

SMS-PP (SEND SHORT MESSAGE) Message 1.2

Logically:

SMS RPDU

RP-Originator Address not used  
 RP-Destination SMSC Address  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD value shall not be verified  
 TP-VPF value shall not be verified  
 TP-RP value shall not be verified  
 TP-UDHI value shall not be verified  
 TP-SRR value shall not be verified  
 TP-MR "01"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345678"

Coding:

|        |        |    |    |    |    |    |    |    |    |        |    |        |
|--------|--------|----|----|----|----|----|----|----|----|--------|----|--------|
| Coding | 00     | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77     | F8 | Note 1 |
|        | Note 2 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F8 | Note 3 |    |        |
|        |        |    |    |    |    |    |    |    |    |        |    |        |

Note 1: Octet shall not be verified

Note 2: Only the TP-MTI bits shall be verified

Note 3: The remaining octets shall not be verified

**Expected Sequence 1.3 (MO SM CONTROL BY USIM , with Proactive command, Not allowed')**

| Step | Direction  | Message / Action   | Comments   |
|------|------------|--|--|
| 1    | UICC -> ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1  |  |
| 2    | ME -> UICC | FETCH  |  |
| 3    | UICC -> ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1  |  |
| 4    | ME -> USER | Display "Send SM"  | [The display of the Alpha Identifier shall not be verified]  |
| 5    | ME -> UICC | ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A<br>or<br>ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 6    | UICC -> ME | MO SHORT MESSAGE CONTROL RESULT 1.3.1  | [ 'not Allowed']   |
| 7    | ME -> UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1  | [ Permanent Problem - Interaction with Call Control or MO short message control by USIM ]          |
| 8    | ME -> USS  | The ME does not send the Short Message   |  |

**MO SHORT MESSAGE CONTROL RESULT 1.3.1**

Logically:

MO Short Message control result : '01' = Not Allowed

Coding:

|          |    |    |
|----------|----|----|
| BER-TLV: | 01 | 00 |
|----------|----|----|

**TERMINAL RESPONSE: SEND SHORT MESSAGE 1.3.1**

Logically:

Command details

Command number: 01  
 Command Type: SEND SHORT MESSAGE  
 Command qualifier: packing not required

Device identities

Source device: ME  
 Destination device: UICC

Result

General Result: Interaction with call control or MO-SM by USIM permanent problem

Additional information: Action not allowed

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 82 | 81 | 83 | 02 | 39 |
|          | 01 |    |    |    |    |    |    |    |    |    |    |    |

**Expected Sequence 1.4 (MO SM CONTROL BY USIM , with user SMS, Not allowed ')**

| Step | Direction  | Message / Action   | Comments   |
|------|------------|--|--|
| 1    | USER -> ME | The user makes a SMS with the user data 'Test Message' and sends it to +012345678.             | [The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2. |
| 2    | ME -> UICC | ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A<br>or<br>ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]                           |
| 3    | UICC -> ME | MO SM CONTROL RESULT 1.3.1   | [ 'Not allowed']   |
| 4    | ME -> USS  | The ME does not send the Short Message   |  |

**Expected Sequence 1.5 (MO SM CONTROL BY USIM , with Proactive command, Allowed with modifications')**

| Step | Direction  | Message / Action   | Comments  |
|------|------------|--|---|
| 1    | UICC -> ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1  |   |
| 2    | ME -> UICC | FETCH  |   |
| 3    | UICC -> ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1  | Send SMS to '+012345678'  |
| 4    | ME -> USER | Display "Send SM"  | [Alpha Identifier]  |
| 5    | ME -> UICC | ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A<br>or<br>ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]  |
| 6    | UICC -> ME | MO SM CONTROL RESULT 1.5.1   | ['Allowed with modifications']  |
| 7    | ME -> USS  | Send SMS-PP Message 1.5  | [The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.5 with the data provided by the UICC to the changed Service Center Address '+112233445566779' ] |
| 8    | USS -> ME  | SMS RP-ACK   |   |
| 9    | ME -> UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1  |   |

**MO SHORT MESSAGE CONTROL RESULT 1.5.1**

Logically:

MO Short Message control result : '02' = Allowed with modifications

RP Destination\_Address of the Service Center

TON: International

NPI: "ISDN / telephone numbering plan" or "unknown"

Dialling number string: '112233445566779'

TP Destination Address

TON: International

NPI: "ISDN / telephone numbering plan" or "unknown"

Dialling number string: '012345679'

Coding:

|    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|
| 02 | 13 | 86 | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 |
| 77 | F9 | 86 | 06 | 91 | 10 | 32 | 54 | 76 | F9 |    |

**SMS-PP (SEND SHORT MESSAGE) Message 1.5**

Logically:

SMS RPDU



RP-Originator Address not used  
 RP-Destination SMSC Address  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "112233445566779"  
 SMS TPDU  
 TP-MTI SMS-SUBMIT  
 TP-RD Instruct the SC to accept an SMS-SUBMIT for a SM  
 TP-VPF TP-VP field not present  
 TP-RP TP-Reply-Path is not set in this SMS-SUBMIT  
 TP-UDHI The TP-UD field contains only the short message  
 TP-SRR A status report is not requested  
 TP-MR "01"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345679"  
 TP-PID Short message type 0  
 TP-DCS  
 Message coding 8-bit data  
 Message class class 0  
 TP-UDL 12  
 TP-UD "Test Message"

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 00 | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | F9 | 18 |
|        | 01 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F9 | 40 | F4 | 0C |
|        | 54 | 65 | 73 | 74 | 20 | 4D | 65 | 73 | 73 | 61 | 67 | 65 |

TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1

Logically:

Command details  
 Command number: 01  
 Command Type: SEND SHORT MESSAGE  
 Command qualifier: packing not required  
 Device identities  
 Source device: ME  
 Destination device: UICC  
 Result  
 General Result: Command performed successfully

Coding:

|          |    |    |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|
| BER-TLV: | 81 | 03 | 01 | 13 | 00 | 82 | 02 | 82 | 81 | 83 | 01 | 00 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|

**Expected Sequence 1.6 (MO SM CONTROL BY USIM , with user SMS, Allowed with modifications')**

| Step | Direction  | Message / Action   | Comments  |
|------|------------|--|---|
| 1    | USER -> ME | The user makes a SMS with the user data 'Test Message' and sends it to +012345678.           | [The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2.  |
| 2    | ME -> UICC | ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1A<br>or<br>ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]  |
| 3    | UICC -> ME | MO SM CONTROL RESULT 1.5.1   | [ 'Allowed with modifications']   |
| 4    | ME-> USS   | Send SMS-PP Message 1.6  | [The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1. 6 with the data provided by the UICC to the changed Service Center Address '+112233445566779'] |
| 5    | USS -> ME  | SMS RP-ACK   |   |

SMS-PP (SEND SHORT MESSAGE) Message 1.6

Logically:

SMS RPDU

RP-Originator Address not used  
 RP-Destination SMSC Address  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "112233445566779"

SMS TPDU

TP-MTI SMS-SUBMIT  
 TP-RD value shall not be verified  
 TP-VPF value shall not be verified  
 TP-RP value shall not be verified  
 TP-UDHI value shall not be verified  
 TP-SRR value shall not be verified  
 TP-MR "01"  
 TP-DA  
 TON International number  
 NPI "ISDN / telephone numbering plan"  
 Address value "012345679"

Coding:

|        |        |    |    |    |    |    |    |    |    |        |    |        |
|--------|--------|----|----|----|----|----|----|----|----|--------|----|--------|
| Coding | 00     | 09 | 91 | 11 | 22 | 33 | 44 | 55 | 66 | 77     | F9 | Note 1 |
|        | Note 2 | 01 | 09 | 91 | 10 | 32 | 54 | 76 | F9 | Note 3 |    |        |
|        |        |    |    |    |    |    |    |    |    |        |    |        |

Note 1: Octet shall not be verified.

Note 2: Only the TP-MTI bits shall be verified.

Note 3: The remaining octets shall not be verified.

**Expected Sequence 1.7 (MO SM CONTROL BY USIM , with Proactive command, the USIM responds with '90 00', Allowed, no modification)**

| Step | Direction  | Message / Action   | Comments   |
|------|------------|--|--|
| 1    | UICC -> ME | PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1  |  |
| 2    | ME -> UICC | FETCH  |  |
| 3    | UICC -> ME | PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1  | Send SMS to '+012345678'   |
| 4    | ME -> USER | Display "Send SM"  | [Alpha Identifier]   |
| 5    | ME -> UICC | ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1A<br>or<br>ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters] |
| 6    | UICC -> ME | 90 00  |  |
| 7    | ME -> USS  | Send SMS-PP  | [The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.1 without modification]      |
| 8    | USS -> ME  | SMS RP-ACK   |  |
| 9    | ME -> UICC | TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1  |  |

**Expected Sequence 1.8 (MO SM CONTROL BY USIM , Send Short Message attempt by user, the USIM responds with '90 00', Allowed, no modification)**

| Step | Direction | Message / Action  | Comments   |
|------|-----------|---|--|
| 1    | User → ME | The user makes a SMS with the user data 'Test Message' and sends it to +012345678.              | [The data entered and the ME settings shall lead to the same SMS-TPDU as defined in SMS-PP (SEND SHORT MESSAGE) Message 1.2. |
| 2    | ME → UICC | ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1 A<br>or<br>ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B | [Option A shall apply for GERAN/UTRAN parameters]<br>[Option B shall apply for PCS1900 parameters]                           |
| 3    | UICC → ME | 90 00   |  |
| 4    | ME → USS  | Send SMS-PP   | [The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.2 without modification]                                |
| 5    | USS -> ME | SMS RP-ACK  |  |

Expected Sequence 1.9void

### 27.22.8.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.9.

### 27.22.9 Handling of command number

#### 27.22.9.1 Definition and applicability

See clause 3.2.2.

#### 27.22.9.2 Conformance requirement

The ME shall support the facility as defined in TS 31.111 [15] clause 6.5.1, clause 6.8 and clause 8.6

#### 27.22.9.3 Test purpose

To verify that the ME sends a Terminal Response with the Command number equivalent to the value in the corresponding proactive command.

#### 27.22.9.4 Method of tests

##### 27.22.9.4.1 Initial conditions

The ME is connected to the USIM Simulator.

The elementary files are coded as Toolkit default.

Prior to this test the ME shall have been powered on and performed the PROFILE DOWNLOAD procedure.

The ME screen shall be in its normal stand-by display.

The ME shall support the DISPLAY TEXT command.

##### 27.22.9.4.2 Procedure

###### **Expected Sequence 1.1 (DISPLAY TEXT normal priority, Unpacked 8 bit data for Text String, successful)**

See ETSI TS 102 384 [26] in subclause 27.22.9.4.2, Expected Sequence 1.1.

#### 27.22.9.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1

## Annex A (normative): Details of Test-SIM (TestSIM)

The TestSIM shall be able to present the following data:

### ANSWER TO RESET

Logically:

|                         |  |
|-------------------------|--|
| TS (Initial character): | '3B'   |
| T0 (Format character):  | '86' (Following interface characters: TD(1), number of historical characters: 6) |
| TD1:                    | '00' (Following interface characters: none, Transfer protocol: T=0)              |
| T1:                     | 91   |
| T2:                     | 99   |
| T3:                     | 00   |
| T4:                     | 12   |
| T5:                     | C1   |
| T6:                     | 00   |

Coding:

|         |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|
| Coding: | 3B | 86 | 00 | 91 | 99 | 00 | 12 | C1 | 00 |
|---------|----|----|----|----|----|----|----|----|----|

1. For a successful outcome of the command "Select MasterFile" the TestSIM shall send SW1/SW2 "9F 1B".
2. For a successful outcome of the command "Get Response with Length 1B" on the MasterFile the TestSIM shall respond:

|                                   |                   |
|-----------------------------------|-------------------|
| RFU:                              | '00 00'           |
| Not allocated memory:             | '653 bytes'       |
| File ID:                          | Master File       |
| Type of file:                     | MF                |
| RFU:                              | 00 00 22 FF 01'   |
| Length of following data:         | 14 bytes'         |
| File characteristics:             |                   |
| Clock Stop:                       | Not allowed       |
| Min. frequency for GSM algorithm: | 13/8 MHz          |
| Technology identification:        | 3V Technology SIM |
| CHV1:                             | disabled          |
| DFs in current directory:         | 2                 |
| EFs in current directory:         | 8                 |
| Number of CHV and admin. Codes:   | 3                 |
| RFU byte 18:                      | 00                |
| CHV1 status:                      |                   |
| False representations remaining:  | 3                 |
| RFU-bits 7-5:                     | 000               |
| Secret code:                      | Initialized       |
| Unlock CHV1 status:               |                   |
| False representations remaining:  | 10                |
| RFU-bits 7-5:                     | 000               |
| Secret code:                      | Initialized       |
| CHV2 status:                      |                   |
| False representations remaining:  | 3                 |
| RFU-bits 7-5:                     | 000               |
| Secret code:                      | Initialized       |
| Unlock CHV2 status:               |                   |
| False representations remaining:  | 10                |
| RFU-bits 7-5:                     | 000               |
| Secret code:                      | Initialized       |
| RFU bytes 23:                     | 00                |

Reserved for admin. management: 00 83 00 FF  
 Status Words  
 SW1 / SW2: Normal ending of command

Coding:

|        |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Coding | 00 | 00 | 02 | 8D | 3F | 00 | 01 | 00 | 00 | 22 | FF | 01 |
|        | 0E | 9B | 02 | 08 | 03 | 00 | 83 | 8A | 83 | 8A | 00 | 00 |
|        | 83 | 00 | FF | 90 | 00 |    |    |    |    |    |    |    |

1. For a successful outcome of the command "Select GSM" the TestSIM shall send SW1/SW2 "9F 1B".
2. For a successful outcome of the command "Select PLMN" the TestSIM shall send SW1/SW2 "9F 0F".
3. EF<sub>PLMN</sub> Information:

RFU-Bytes 1-2: 00 00  
 File size: 102 bytes  
 File ID: 6F30  
 Type of File: Elementary file  
 Byte 8  
 RFU: 00  
 Access Condition:  
 UPDATE: CHV1  
 READ/SEEK: CHV1  
 RFU-bits 4-1: 1111  
 INCREASE: NEVER  
 INVALIDATE: NEVER  
 REHABILITATE: NEVER  
 File Status:  
 Invalidation status: File not invalidated  
 Readable/updateable: Not readable/updatable when invalidated  
 RFU-bits 8-4, 2: 0000 0  
 Length of following data: 2 bytes  
 Structure: Transparent  
 Length of record: 00

The initial coding of the EF<sub>PLMN</sub> shall be FF FF ... FF (logically: Empty).

## Annex B (normative): Details of terminal profile support

**Table E.1: TERMINAL PROFILE support**

| Item | Byte.bit | Terminal Profile                         | Ref.                          | Release | Status              | Support | Mnemonic         |
|------|----------|--|-------------------------------|---------|---------------------|---------|------------------|
| 1    | 1.1      | Profile Download                         | TS 31.111 §5.2                | R99     | M                   |         | PD_Pro_Dvnl      |
| 2    | 1.2      | SMS-PP data download                     | TS 31.111 §5.2                | R99     | C279                |         | PD_SMS_PP        |
| 3    | 1.3      | Cell Broadcast data download             | TS 31.111 §5.2                | R99     | C279                |         | PD_CB            |
| 4    | 1.4      | Menu selection                           | TS 31.111 §5.2                | R99     | C267<br>AND<br>C268 |         | PD_Menu_sel      |
| 5    | 1.5      | Bit =1 if SMS-PP data Download supported | TS 31.111 §5.2                | R99     | C279                |         | PD_SMS_PP        |
| 6    | 1.6      | Timer expiration                         | TS 31.111 §5.                 | R99     | M                   |         | PD_TExpir        |
| 7    | 1.7      | Bit=1 if Call control supported          | TS 31.111 §5.2.               | R99     | C270<br>AND<br>C279 |         | PD_CC            |
| 8    | 1.8      | Bit=1 if Call control supported          | TS 31.111 §5.2                | R99     | C270<br>AND<br>C279 |         | PD_CC            |
| 9    | 2.1      | Command result                           | TS 31.111 §5.2                | R99     | M                   |         | PD_Cmd_Res       |
| 10   | 2.2      | Call Control by USIM                     | TS 31.111 §5.2                | R99     | C270<br>AND<br>C279 |         | PD_CC            |
| 11   | 2.3      | Bit=1 if Call control supported          | TS 31.111 §5.2                | R99     | C270<br>AND<br>C279 |         | PD_CC            |
| 12   | 2.4      | MO short message control by USIM         | TS 31.111 §5.2                | R99     | C279                |         | PD_MO_SMS_CC     |
| 13   | 2.5      | Bit=1 if Call control supported          | TS 31.111 §5.2                | R99     | C270<br>AND<br>C279 |         | PD_CC            |
| 14   | 2.6      | UCS2 Entry supported                     | TS 31.111 §5.2                | R99     | C203<br>AND<br>C268 |         | PD_UCS2_entry    |
| 15   | 2.7      | UCS2 Display supported                   | TS 31.111 §5.2                | R99     | C204<br>AND<br>C267 |         | PD_UCS2_Display  |
| 16   | 2.8      | Bit=1 if Display Text supported          | TS 31.111 §5.2                | R99     | C267                |         | PD_Display_Text  |
| 17   | 3.1      | DISPLAY TEXT                             | TS 31.111 §5.2                | R99     | C267                |         | PD_Display_Text  |
| 18   | 3.2      | GET INKEY                                | TS 31.111 §5.2                | R99     | C267<br>AND<br>C268 |         | PD_Get_Inkey     |
| 19   | 3.3      | GET INPUT                                | TS 31.111 §5.2                | R99     | C267<br>AND<br>C268 |         | PD_Get_Input     |
| 20   | 3.4      | MORE TIME                                | TS 31.111 §5.2                | R99     | M                   |         | PD_More_Time     |
| 21   | 3.5      | PLAY TONE                                | TS 31.111 §5.2<br>TS 11.14, 5 | R99     | C269                |         | PD_Play_Tone     |
| 22   | 3.6      | POLL INTERVAL                            | TS 31.111 §5.2<br>TS 11.14, 5 | R99     | M                   |         | PD_Poll_interval |
| 23   | 3.7      | POLLING OFF                              | TS 31.111 §5.2                | R99     | M                   |         | PD_Polling_Off   |
| 24   | 3.8      | REFRESH                                  | TS 31.111 §5.2                | R99     | M                   |         | PD_Refresh       |
| 25   | 4.1      | SELECT ITEM                              | TS 31.111 §5.2                | R99     | C267<br>AND<br>C268 |         | PD_Select_Item   |
| 26   | 4.2      | SEND SHORT MESSAGE                       | TS 31.111 §5.2                | R99     | C279                |         | PD_Send_SMS      |
| 27   | 4.3      | SEND SS                                  | TS 31.111 §5.2                | R99     | C279                |         | PD_Send_SS       |
| 28   | 4.4      | SEND USSD                                | TS 31.111 §5.2                | R99     | C279                |         | PD_Send_USSD     |

| Item | Byte.bit | Terminal Profile                                     | Ref.           | Release | Status  | Support | Mnemonic                |
|------|----------|--|----------------|---------|---|---------|-------------------------|
| 29   | 4.5      | SET UP CALL  | TS 31.111 §5.2 | R99     | C267<br>AND<br>C268<br>AND<br>C270<br>AND<br>C279 |         | PD_SetUp_Call           |
| 30   | 4.6      | SET UP MENU  | TS 31.111 §5.2 | R99     | C267<br>AND<br>C268                               |         | PD_SetUp_Menu           |
| 31   | 4.7      | PROVIDE LOCAL INFORMATION (LOCI & IMEI)              | TS 31.111 §5.2 | R99     | M   |         | PD_Provide_Local        |
| 32   | 4.8      | PROVIDE LOCAL INFORMATION (NMR)                      | TS 31.111 §5.2 | R99     | C279  |         | PD_Provide_Local_NMR    |
| 33   | 5.1      | SET UP EVENT LIST                                    | TS 31.111 §5.2 | R99     | M   |         | PD_Setup_Evt_List       |
| 34   | 5.2      | Event: MT call                                       | TS 31.111 §5.2 | R99     | C270<br>AND<br>C279                               |         | PD_MT_Call              |
| 35   | 5.3      | Event: Call connected                                | TS 31.111 §5.2 | R99     | C270<br>AND<br>C279                               |         | PD_Call_Conn            |
| 36   | 5.4      | Event: Call disconnected                             | TS 31.111 §5.2 | R99     | C270<br>AND<br>C279                               |         | PD_Call_Disc            |
| 37   | 5.5      | Event: Location status                               | TS 31.111 §5.2 | R99     | M   |         | PD_Loc_Status           |
| 38   | 5.6      | Event: User activity                                 | TS 31.111 §5.2 | R99     | C268  |         | PD_User_Act             |
| 39   | 5.7      | Event: Idle screen available                         | TS 31.111 §5.2 | R99     | C267  |         | PD_Idle_Scr_Avail       |
| 40   | 5.8      | Event: Card reader status                            | TS 31.111 §5.2 | R99     | C206  |         | PD_Evt_Rdr_Status       |
| 41   | 6.1      | Event: Language selection                            | TS 31.111 §5.2 | R99     | C271  |         | PD_Lang_Select          |
| 42   | 6.2      | Event: Browser Termination                           | TS 31.111 §5.2 | R99     | C212<br>AND<br>C267<br>AND<br>C268                |         | PD_Browser_Term         |
| 43   | 6.3      | Event: Data available                                | TS 31.111 §5.2 | R99     | C223  |         | PD_Data_Avail           |
| 44   | 6.4      | Event: Channel status                                | TS 31.111 §5.2 | R99     | C223  |         | PD_Evt_Ch_Status        |
| 45   | 6.5      | Event: Access Technology Change                      | TS 31.111 §5.2 | Rel-4   | M   |         | PD_Evt_ATC              |
| 46   | 6.6      | Event: Display Parameters Changed                    | TS 31.111 §5.2 | Rel-4   | C218<br>AND<br>C267                               |         | PD_Disp_Resiz           |
| 47   | 6.7      | Event: Local Connection                              | TS 31.111 §5.2 | Rel-4   | C224  |         | PD_Evt_LC               |
| 48   | 6.8      | Event: Network Search Mode Change                    | TS 31.111 §5.2 | Rel-6   | M   |         | PD_Evt_NS_MC            |
| 49   | 7.1      | POWER ON CARD  | TS 31.111 §5.2 | R99     | C206  |         | PD_C_On                 |
| 50   | 7.2      | POWER OFF CARD                                       | TS 31.111 §5.2 | R99     | C206  |         | PD_C_Off                |
| 51   | 7.3      | PERFORM CARD APDU                                    | TS 31.111 §5.2 | R99     | C206  |         | PD_C_APDU               |
| 52   | 7.4      | GET READER STATUS (Card reader status)               | TS 31.111 §5.2 | R99     | C206  |         | PD_Get_Rdr_Status       |
| 53   | 7.5      | GET READER STATUS (Card reader identifier)           | TS 31.111 §5.2 | R99     | C208  |         | PD_Get_Rdr_Id           |
| 54   | 7.6      | RFU  | TS 31.111 §5.2 | R99     | X   |         | PD_RFU_54               |
| 55   | 7.7      | RFU  | TS 31.111 §5.2 | R99     | X   |         | PD_RFU_55               |
| 56   | 7.8      | RFU  | TS 31.111 §5.2 | R99     | X   |         | PD_RFU_56               |
| 57   | 8.1      | TIMER MANAGEMENT (start, stop)                       | TS 31.111 §5.2 | R99     | M   |         | PD_Timer_Mgt_Start_Stop |
| 58   | 8.2      | TIMER MANAGEMENT (get current value)                 | TS 31.111 §5.2 | R99     | M   |         | PD_Timer_Val            |
| 59   | 8.3      | PROVIDE LOCAL INFORMATION (date, time and time zone) | TS 31.111 §5.2 | R99     | M   |         | PD_Provide_Local_D_Time |
| 60   | 8.4      | Bit=1 if Get Inkey                                   | TS 31.111 §5.2 | R99     | C268  |         | PD_Get_Inkey            |



| Item | Byte.bit | Terminal Profile                                     | Ref.           | Release | Status                             | Support | Mnemonic               |
|------|----------|--|----------------|---------|------------------------------------|---------|------------------------|
| 61   | 8.5      | SET UP IDLE MODE TEXT                                | TS 31.111 §5.2 | R99     | C267                               |         | PD_Stup_Id_Mod_Txt     |
| 62   | 8.6      | RUN AT COMMAND (i.e. class "b" is supported)         | TS 31.111 §5.2 | R99     | C209                               |         | PD_Run_AT              |
| 63   | 8.7      | Bit=1 if Set UpCall                                  | TS 31.111 §5.2 | R99     | C267<br>AND<br>C268<br>AND<br>C270 |         | PD_SetUp_Call          |
| 64   | 8.8      | Bit=1 if Call Control                                | TS 31.111 §5.2 | R99     | C270<br>AND<br>C279                |         | PD_CC                  |
| 65   | 9.1      | Bit=1 if Display Text                                | TS 31.111 §5.2 | R99     | C267                               |         | PD_Display_Text        |
| 66   | 9.2      | SEND DTMF command                                    | TS 31.111 §5.2 | R99     | C270<br>AND<br>C279                |         | PD_Send_DTMF           |
| 67   | 9.3      | Bit = 1 if Provide Local Information (NMR) supported | TS 31.111 §5.2 | R99     | C279                               |         | PD_Provide_Local       |
| 68   | 9.4      | PROVIDE LOCAL INFORMATION (language)                 | TS 31.111 §5.2 | R99     | M                                  |         | PD_Provide_Local_LS    |
| 69   | 9.5      | PROVIDE LOCAL INFORMATION (Timing Advance)           | TS 31.111 §5.2 | R99     | C280                               |         | PD_Provide_Local_TA    |
| 70   | 9.6      | LANGUAGE NOTIFICATION                                | TS 31.111 §5.2 | R99     | C271                               |         | PD_Lang_Notif          |
| 71   | 9.7      | LAUNCH BROWSER                                       | TS 31.111 §5.2 | R99     | C212<br>AND<br>C267<br>AND<br>C268 |         | PD_Launch_Brws         |
| 72   | 9.8      | PROVIDE LOCAL INFORMATION (Access Technology)        | TS 31.111 §5.2 | Rel-4   | M                                  |         | PD_Provide_Local_AT    |
| 73   | 10.1     | Soft keys support for SELECT ITEM                    | TS 31.111 §5.2 | R99     | C213                               |         | PD_Softkey_Select_Item |
| 74   | 10.2     | Soft Keys support for SET UP MENU                    | TS 31.111 §5.2 | R99     | C213                               |         | PD_Softkey_SetUp_Menu  |
| 75   | 10.3     | RFU  | TS 31.111 §5.2 | R99     | X                                  |         | PD_RFU_75              |
| 76   | 10.4     | RFU  | TS 31.111 §5.2 | R99     | X                                  |         | PD_RFU_76              |
| 77   | 10.5     | RFU  | TS 31.111 §5.2 | R99     | X                                  |         | PD_RFU_77              |
| 78   | 10.6     | RFU  | TS 31.111 §5.2 | R99     | X                                  |         | PD_RFU_78              |
| 79   | 10.7     | RFU  | TS 31.111 §5.2 | R99     | X                                  |         | PD_RFU_79              |
| 80   | 10.8     | RFU  | TS 31.111 §5.2 | R99     | X                                  |         | PD_RFU_80              |
| 81   | 11.1     | Maximum number of soft keys available ('FF' = RFU)   | TS 31.111 §5.2 | R99     | C214                               |         | PD_Max_SoftKey         |
| 82   | 11.2     | Maximum number of soft keys available ('FF' = RFU)   | TS 31.111 §5.2 | R99     | C214                               |         | PD_Max_SoftKey         |
| 83   | 11.3     | Maximum number of soft keys available ('FF' = RFU)   | TS 31.111 §5.2 | R99     | C214                               |         | PD_Max_SoftKey         |
| 84   | 11.4     | Maximum number of soft keys available ('FF' = RFU)   | TS 31.111 §5.2 | R99     | C214                               |         | PD_Max_SoftKey         |
| 85   | 11.5     | Maximum number of soft keys available ('FF' = RFU)   | TS 31.111 §5.2 | R99     | C214                               |         | PD_Max_SoftKey         |
| 86   | 11.6     | Maximum number of soft keys available ('FF' = RFU)   | TS 31.111 §5.2 | R99     | C214                               |         | PD_Max_SoftKey         |
| 87   | 11.7     | Maximum number of soft keys available ('FF' = RFU)   | TS 31.111 §5.2 | R99     | C214                               |         | PD_Max_SoftKey         |
| 88   | 11.8     | Maximum number of soft keys available ('FF' = RFU)   | TS 31.111 §5.2 | R99     | C214                               |         | PD_Max_SoftKey         |
| 89   | 12.1     | OPEN CHANNEL   | TS 31.111 §5.2 | R99     | C223                               |         | PD_Open_Ch             |
| 90   | 12.2     | CLOSE CHANNEL  | TS 31.111 §5.2 | R99     | C223                               |         | PD_Close_Ch            |
| 91   | 12.3     | RECEIVE DATA   | TS 31.111 §5.2 | R99     | C223                               |         | PD_Rx_Data             |
| 92   | 12.4     | SEND DATA  | TS 31.111 §5.2 | R99     | C223                               |         | PD_Send_Data           |
| 93   | 12.5     | GET CHANNEL STATUS                                   | TS 31.111 §5.2 | R99     | C223                               |         | PD_Get_Ch_Status       |

| Item | Byte.bit | Terminal Profile                                     | Ref.           | Release | Status | Support | Mnemonic         |
|------|----------|--|----------------|---------|--------|---------|------------------|
| 94   | 12.6     | SERVICE SEARCH                                       | TS 31.111 §5.2 | Rel-4   | C224   |         | PD_Serv_Search   |
| 95   | 12.7     | GET SERVICE INFORMATION                              | TS 31.111 §5.2 | Rel-4   | C224   |         | PD_Get_Serv_Info |
| 96   | 12.8     | DECLARE SERVICE                                      | TS 31.111 §5.2 | Rel-4   | C224   |         | PD_Declare_Serv  |
| 97   | 13.1     | CSD supported by ME                                  | TS 31.111 §5.2 | R99     | C207   |         | PD_CSD           |
| 98   | 13.2     | GPRS supported by ME                                 | TS 31.111 §5.2 | R99     | C222   |         | PD_GPRS          |
| 99   | 13.3     | Bluetooth supported by terminal                      | TS 31.111 §5.2 | Rel-4   | C225   |         | PD_BT            |
| 100  | 13.4     | IrDA Supported by terminal                           | TS 31.111 §5.2 | Rel-4   | C226   |         | PD_IrDA          |
| 101  | 13.5     | RS232 Supported by terminal                          | TS 31.111 §5.2 | Rel-4   | C227   |         | PD_RS232         |
| 102  | 13.6     | Number of channels supported by ME                   | TS 31.111 §5.2 | R99     | C257   |         | PD_Nb_Channel    |
| 103  | 13.7     | Number of channels supported by ME                   | TS 31.111 §5.2 | R99     | C257   |         | PD_Nb_Channel    |
| 104  | 13.8     | Number of channels supported by ME                   | TS 31.111 §5.2 | R99     | C257   |         | PD_Nb_Channel    |
| 105  | 14.1     | Number of characters supported down the ME           | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char       |
| 106  | 14.2     | Number of characters supported down the ME           | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char       |
| 107  | 14.3     | Number of characters supported down the ME           | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char       |
| 108  | 14.4     | Number of characters supported down the ME           | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char       |
| 109  | 14.5     | Number of characters supported down the ME           | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char       |
| 110  | 14.6     | No display capability (i.e class "ND" is indicated)  | TS 31.111 §5.2 | Rel-8   | C276   |         | PD_Type_ND       |
| 111  | 14.7     | No keypad available (i.e. class "NK" is indicated)   | TS 31.111 §5.2 | Rel-8   | C277   |         | PD_Type_NK       |
| 112  | 14.8     | Screen Sizing Parameters                             | TS 31.111 §5.2 | R99     | C216   |         | PD_Screen_Siz    |
| 113  | 15.1     | Number of characters supported across the ME display | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char_Dis   |
| 114  | 15.2     | Number of characters supported across the ME display | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char_Dis   |
| 115  | 15.3     | Number of characters supported across the ME display | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char_Dis   |
| 116  | 15.4     | Number of characters supported across the ME display | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char_Dis   |
| 117  | 15.5     | Number of characters supported across the ME display | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char_Dis   |
| 118  | 15.6     | Number of characters supported across the ME display | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char_Dis   |
| 119  | 15.7     | Number of characters supported across the ME display | TS 31.111 §5.2 | R99     | C274   |         | PD_Nb_Char_Dis   |
| 120  | 15.8     | Variable size fonts Supported                        | TS 31.111 §5.2 | R99     | C274   |         | PD_Var_Font      |
| 121  | 16.1     | Display can be resized                               | TS 31.111 §5.2 | R99     | C218   |         | PD_Dis_Resize    |
| 122  | 16.2     | Text Wrapping supported                              | TS 31.111 §5.2 | R99     | C273   |         | PD_Txt_Wrap      |
| 123  | 16.3     | Text Scrolling supported                             | TS 31.111 §5.2 | R99     | C273   |         | PD_Txt_Scroll    |
| 124  | 16.4     | Text attributes supported                            | TS 31.111 §5.2 | Rel-5   | C228   |         | PD_Text_Attrib   |
| 125  | 16.5     | RFU  | TS 11.14, 5    | R96     | X      |         | PD_RFU_125       |
| 126  | 16.6     | Width reduction when in a menu                       | TS 31.111 §5.2 | R99     | C274   |         | PD_Width_Reduc   |
| 127  | 16.7     | Width reduction when in a menu                       | TS 31.111 §5.2 | R99     | C274   |         | PD_Width_Reduc   |

| Item | Byte.bit | Terminal Profile  | Ref.           | Release | Status                 | Support | Mnemonic                   |
|------|----------|---|----------------|---------|------------------------|---------|----------------------------|
| 128  | 16.8     | Width reduction when in a menu  | TS 31.111 §5.2 | R99     | C274                   |         | PD_Width_Reduc             |
| 129  | 17.1     | TCP, UICC in client mode  | TS 31.111 §5.2 | R99     | C220                   |         | PD_TCP                     |
| 130  | 17.2     | UDP, UICC in client mode  | TS 31.111 §5.2 | R99     | C221                   |         | PD_UDP                     |
| 131  | 17.3     | TCP, UICC in server mode (i.e. class "k" is supported)                                  | TS 31.111 §5.2 | Rel-7   | C262                   |         | PD_TCP_UICC_ServerMode     |
| 132  | 17.4     | TCP, Terminal in server mode (i.e. class "k" is supported)                              | TS 31.111 §5.2 | Rel-7   | C263                   |         | PD_TCP_Terminal_ServerMode |
| 133  | 17.5     | UDP, Terminal in server mode (i.e. class "k" is supported)                              | TS 31.111 §5.2 | Rel-7   | C264                   |         | PD_UDP_Terminal_ServerMode |
| 134  | 17.6     | Direct communication channel (i.e. class "k" is supported)                              | TS 31.111 §5.2 | Rel-10  | C284                   |         | Direct_Com_Channel         |
| 135  | 17.7     | E- UTRAN (i.e. if class "e" is supported)   | TS 31.111 §5.2 | Rel-8   | C275                   |         | PD_E_UTRAN                 |
| 136  | 17.8     | HSDPA supported by ME   | TS 31.111 §5.2 | Rel-6   | C258                   |         | PD_HSDPA                   |
| 137  | 18.1     | DISPLAY TEXT (Variable time out)  | TS 31.111 §5.2 | Rel-4   | C229                   |         | PD_Displ_Var_Timeout       |
| 138  | 18.2     | GET INKEY (help is supported while waiting for immediate response or variable time out) | TS 31.111 §5.2 | Rel-4   | C231                   |         | PD_Get_Inkey_Help          |
| 139  | 18.3     | USB (Bearer Independent protocol supported bearers, class "e")                          | TS 31.111 §5.2 | Rel-4   | C232                   |         | PD_USB                     |
| 140  | 18.4     | GET INKEY (Variable time out)   | TS 31.111 §5.2 | Rel-4   | C229 AND C267 AND C268 |         | PD_Get_Inkey_Var_Timeout   |
| 141  | 18.5     | Reserved for 3GPP2: PROVIDE LOCAL INFORMATION (ESN)                                     | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 142  | 18.6     | CALL CONTROL on GPRS  | TS 31.111 §5.2 | Rel-5   | C242                   |         | PD_CC_GPRS                 |
| 143  | 18.7     | PROVIDE LOCAL INFORMATION (IMEISV)  | TS 31.111 §5.2 | Rel-6   | M                      |         | PD_Provide_Local_SV        |
| 144  | 18.8     | PROVIDE LOCAL INFORMATION (search mode change)  | TS 31.111 §5.2 | Rel-6   | M                      |         | PD_Provide_Local_SMC       |
| 145  | 19.1     | Protocol Version  | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 146  | 19.2     | Protocol Version  | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 147  | 19.3     | Protocol Version  | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 148  | 19.4     | Protocol Version  | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 149  | 19.5     | RFU   | TS 31.111 §5.2 | R99     | X                      |         | PD_RFU_149                 |
| 150  | 19.6     | RFU   | TS 31.111 §5.2 | R99     | X                      |         | PD_RFU_150                 |
| 151  | 19.7     | RFU   | TS 31.111 §5.2 | R99     | X                      |         | PD_RFU_151                 |
| 152  | 19.8     | RFU   | TS 31.111 §5.2 | R99     | X                      |         | PD_RFU_152                 |
| 153  | 20.1     | Reserved by TIA/EIA/IS-820 [25]   | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 154  | 20.2     | Reserved by TIA/EIA/IS-820 [25]   | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 155  | 20.3     | Reserved by TIA/EIA/IS-820 [25]   | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 156  | 20.4     | Reserved by TIA/EIA/IS-820 [25]   | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 157  | 20.5     | Reserved by TIA/EIA/IS-820 [25]   | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 158  | 20.6     | Reserved by TIA/EIA/IS-820 [25]   | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |
| 159  | 20.7     | Reserved by TIA/EIA/IS-820 [25]   | TS 31.111 §5.2 | R99     | X                      |         | Reserved                   |

| Item | Byte.bit | Terminal Profile   | Ref.           | Release | Status              | Support | Mnemonic                   |
|------|----------|--|----------------|---------|---------------------|---------|----------------------------|
| 160  | 20.8     | Reserved by TIA/EIA/IS-820 [25]                                  | TS 31.111 §5.2 | R99     | X                   |         | Reserved                   |
| 161  | 21.1     | WML browser supported  | TS 31.111 §5.2 | Rel-6   | C233<br>AND<br>C267 |         | PD_WML                     |
| 162  | 21.2     | XHTML browser supported  | TS 31.111 §5.2 | Rel-6   | C234<br>AND<br>C267 |         | PD_XHTML                   |
| 163  | 21.3     | HTML browser supported   | TS 31.111 §5.2 | Rel-6   | C235<br>AND<br>C267 |         | PD_HTML                    |
| 164  | 21.4     | CHTML browser supported  | TS 31.111 §5.2 | Rel-6   | C236<br>AND<br>C267 |         | PD_CHTML                   |
| 165  | 21.5     | RFU  | TS 31.111 §5.2 | R99     | X                   |         | PD_RFU_165                 |
| 166  | 21.6     | RFU  | TS 31.111 §5.2 | R99     | X                   |         | PD_RFU_166                 |
| 167  | 21.7     | RFU  | TS 31.111 §5.2 | R99     | X                   |         | PD_RFU_167                 |
| 168  | 21.8     | RFU  | TS 31.111 §5.2 | R99     | X                   |         | PD_RFU_168                 |
| 169  | 22.1     | Support of UTRAN PS with extended parameters                     | TS 31.111 §5.2 | Rel-6   | C259                |         | PD_UTRAN_PS_Ext_Param      |
| 170  | 22.2     | PROVIDE LOCAL INFORMATION (Battery state) if class 'g' supported | TS 31.111 §5.2 | Rel-6   | C239                |         | PD_Provide_Local_Batt      |
| 171  | 22.3     | PLAY TONE (Melody tones & themed tones supported)                | TS 31.111 §5.2 | Rel-6   | C241                |         | PD_M_T_Tones               |
| 172  | 22.4     | Multi-media in SET UP CALL supported (if class 'h' supported)    | TS 31.111 §5.2 | Rel-6   | C240                |         | PD_Xmedia_Call             |
| 173  | 22.5     | Toolkit-initiated GBA  | TS 31.111 §5.2 | Rel-6   | C266                |         | PD_Toolkit_GBA             |
| 174  | 22.6     | RETRIEVE MULTIMEDIA MESSAGE, (if class "j" is supported)         | TS 31.111 §5.2 | Rel-6   | C238                |         | PD_Retrieve_MMS            |
| 175  | 22.7     | SUBMIT MULTIMEDIA MESSAGE, (if class "j" is supported)           | TS 31.111 §5.2 | Rel-6   | C238                |         | PD_Submit_MMS              |
| 176  | 22.8     | DISPLAY MULTIMEDIA MESSAGE, (if class "j" is supported)          | TS 31.111 §5.2 | Rel-6   | C238<br>AND<br>C267 |         | PD_Display_MMS             |
| 177  | 23.1     | SET FRAMES supported (if class 'i' supported)                    | TS 31.111 §5.2 | Rel-6   | C237                |         | PD_Set_Frames              |
| 178  | 23.2     | GET FRAMES STATUS supported (if class 'i' supported)             | TS 31.111 §5.2 | Rel-6   | C237                |         | PD_Get_Frames_Stat         |
| 179  | 23.3     | MMS notification download (if class "j" is supported)            | TS 31.111 §5.2 | Rel-6   | C238                |         | PD_MMS_Notification        |
| 180  | 23.4     | Alpha Identifier in REFRESH command supported by terminal        | TS 31.111 §5.2 | Rel-7   | C267                |         | PD_Refresh_AlphaIdentifier |
| 181  | 23.5     | Geographical Location Reporting (if class "n" is supported)      | TS 31.111 §5.2 | Rel-8   | C265                |         | PD_Geo_Location_Reporting  |
| 182  | 23.6     | Reserved for 3GPP2: PROVIDE LOCAL INFORMATION (MEID)             | TS 31.111 §5.2 | Rel-6   | X                   |         | Reserved                   |
| 183  | 23.7     | PROVIDE LOCAL INFORMATION (NMR (UTRAN/E-UTRAN))                  | TS 31.111 §5.2 | Rel-6   | C278                |         | PD_Provide_Local_NMR       |
| 184  | 23.8     | USSD Data Download and application mode                          | TS 31.111 §5.2 | Rel-6   | C272                |         | PD_USSD_DD                 |
| 185  | 24.1     | Maximum number of frames supported (if class 'i' supported)      | TS 31.111 §5.2 | Rel-6   | C256                |         | PD_Max_Frames              |

| Item | Byte.bit | Terminal Profile   | Ref.           | Release | Status                             | Support | Mnemonic                      |
|------|----------|--|----------------|---------|------------------------------------|---------|-------------------------------|
| 186  | 24.2     | Maximum number of frames supported (if class 'i' supported)  | TS 31.111 §5.2 | Rel-6   | C256                               |         | PD_Max_Frames                 |
| 187  | 24.3     | Maximum number of frames supported (if class 'i' supported)  | TS 31.111 §5.2 | Rel-6   | C256                               |         | PD_Max_Frames                 |
| 188  | 24.4     | Maximum number of frames supported (if class 'i' supported)  | TS 31.111 §5.2 | Rel-6   | C256                               |         | PD_Max_Frames                 |
| 189  | 24.5     | RFU  | TS 31.111 §5.2 | R99     | X                                  |         | PD_RFU_189                    |
| 190  | 24.6     | RFU  | TS 31.111 §5.2 | R99     | X                                  |         | PD_RFU_190                    |
| 191  | 24.7     | RFU  | TS 31.111 §5.2 | R99     | X                                  |         | PD_RFU_191                    |
| 192  | 24.8     | RFU  | TS 31.111 §5.2 | R99     | X                                  |         | PD_RFU_192                    |
| 193  | 25.1     | Event: browsing status   | TS 31.111 §5.2 | Rel-6   | C212<br>AND<br>C267<br>AND<br>C268 |         | PD_Browser_Stat               |
| 194  | 25.2     | Event: MMS Transfer status (if class "j" is supported)   | TS 31.111 §5.2 | Rel-6   | C238                               |         | PD_MMS                        |
| 195  | 25.3     | Event Frame parameters changed (if class 'i' supported)  | TS 31.111 §5.2 | Rel-6   | C237                               |         | PD_Event_Frames               |
| 196  | 25.4     | Event: I-WLAN Access status (if class "e" is supported)  | TS 31.111 §5.2 | Rel-7   | C260                               |         | PD_RFU_Event_I-WLAN           |
| 197  | 25.5     | Event: Network Rejection   | TS 31.111 §5.2 | Rel-8   | C279                               |         | PD_Event_NW_Rejection         |
| 198  | 25.6     | Reserved by ETSI   | TS 31.111 §5.2 | Rel-7   | O                                  |         | PD_Reserved                   |
| 199  | 25.7     | Event: Network Rejection for E-UTRAN   | TS 31.111 §5.2 | Rel-8   | C283                               |         | PD_Event_NW_Rejection_E-UTRAN |
| 200  | 25.8     | Multiple access technologies supported in Event Access Technology Change and Provide Local Information | TS 31.111 §5.2 | Rel-8   | O                                  |         | PD_Multiple_ACT               |
| 201  | 26.1     | Event : CSG Cell Selection (if class "q" is supported)   | TS 31.111 §5.2 | Rel-9   | C281                               |         | PD_Event_CSG_Cell_Selection   |
| 202  | 26.2     | Reserved by ETSI   | TS 31.111 §5.2 | Rel-9   | O                                  |         | PD_Reserved                   |
| 203  | 26.3     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_203                    |
| 204  | 26.4     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_204                    |
| 205  | 26.5     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_205                    |
| 206  | 26.6     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_206                    |
| 207  | 26.7     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_207                    |
| 208  | 26.8     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_208                    |
| 209  | 27.1     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_209                    |
| 210  | 27.2     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_210                    |
| 211  | 27.3     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_211                    |
| 212  | 27.4     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_212                    |
| 213  | 27.5     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_213                    |
| 214  | 27.6     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_214                    |
| 215  | 27.7     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_215                    |
| 216  | 27.8     | RFU  | TS 31.111 §5.2 | Rel-6   | X                                  |         | PD_RFU_216                    |
| 217  | 28.1     | Alignment left supported   | TS 31.111 §5.2 | Rel-5   | C243                               |         | PD_Text_Attrib_Left           |
| 218  | 28.2     | Alignment center supported   | TS 31.111 §5.2 | Rel-5   | C244                               |         | PD_Text_Attrib_Center         |
| 219  | 28.3     | Alignment right supported  | TS 31.111 §5.2 | Rel-5   | C245                               |         | PD_Text_Attrib_Right          |
| 220  | 28.4     | Font size normal supported   | TS 31.111 §5.2 | Rel-5   | C246                               |         | PD_Text_Attrib_Normal         |
| 221  | 28.5     | Font size large supported  | TS 31.111 §5.2 | Rel-5   | C247                               |         | PD_Text_Attrib_Large          |

| Item | Byte.bit | Terminal Profile  | Ref.           | Release | Status | Support | Mnemonic                          |
|------|----------|---|----------------|---------|--------|---------|-----------------------------------|
| 222  | 28.6     | Font size small supported   | TS 31.111 §5.2 | Rel-5   | C248   |         | PD_Text_Attrib_Smal<br>l          |
| 223  | 28.7     | RFU   | TS 31.111 §5.2 | Rel-6   | X      |         | PD_RFU_223                        |
| 224  | 28.8     | RFU   | TS 31.111 §5.2 | Rel-6   | X      |         | PD_RFU_224                        |
| 225  | 29.1     | Style normal supported  | TS 31.111 §5.2 | Rel-5   | C249   |         | PD_Text_Attrib_Styl_<br>Norm      |
| 226  | 29.2     | Style bold supported  | TS 31.111 §5.2 | Rel-5   | C250   |         | PD_Text_Attrib_Styl_<br>Bold      |
| 227  | 29.3     | Style italic supported  | TS 31.111 §5.2 | Rel-5   | C251   |         | PD_Text_Attrib_Styl_<br>Italic    |
| 228  | 29.4     | Style underlined supported  | TS 31.111 §5.2 | Rel-5   | C252   |         | PD_Text_Attrib_Styl_<br>Underl    |
| 229  | 29.5     | Style strikethrough supported   | TS 31.111 §5.2 | Rel-5   | C253   |         | PD_Text_Attrib_Styl_<br>Strik     |
| 230  | 29.6     | Style text foreground colour supported  | TS 31.111 §5.2 | Rel-5   | C254   |         | PD_Text_Attrib_Styl_<br>Text_Fore |
| 231  | 29.7     | Style text background colour supported  | TS 31.111 §5.2 | Rel-5   | C255   |         | PD_Text_Attrib_Styl_<br>Text_Back |
| 232  | 29.8     | RFU   | TS 31.111 §5.2 | Rel-6   | X      |         | PD_RFU_224                        |
| 233  | 30.1     | I-WLAN bearer support (if class "e" is supported)                                 | TS 31.111 §5.2 | Rel-7   | C260   |         | PD_I-WLAN                         |
| 234  | 30.2     | Proactive UICC: PROVIDE LOCAL INFORMATION (WSID of the current I-WLAN connection) | TS 31.111 §5.2 | Rel-7   | C260   |         | PD_Provide_Local_<br>WSID_WLAN    |
| 235  | 30.3     | TERMINAL APPLICATIONS (i.e. class "k" is supported)                               | TS 31.111 §5.2 | Rel-7   | C261   |         | PD_Terminal_Applic<br>ations      |
| 236  | 30.4     | "Steering of Roaming" REFRESH support   | TS 31.111 §5.2 | Rel-7   | M      |         | PD_Steering_Of_Ro<br>aming        |
| 237  | 30.5     | Reserved by ETSI  | TS 31.111 §5.2 | Rel-7   | O      |         | PD_Reserved                       |
| 238  | 30.6     | Proactive UICC: Geographical Location Request (if class "n" is supported)         | TS 31.111 §5.2 | Rel-8   | C265   |         | PD_Geo_Loaction_R<br>equest       |
| 239  | 30.7     | Reserved by ETSI  | TS 31.111 §5.2 | Rel-8   | O      |         | PD_Reserved                       |
| 240  | 30.8     | "Steering of Roaming for I-WLAN" REFRESH support                                  | TS 31.111 §5.2 | Rel-8   | C260   |         | PD_Steering_Of_Ro<br>aming_I-WLAN |
| 241  | 31.1     | Reserved by ETSI  | TS 31.111 §5.2 | Rel-9   | O      |         | PD_Reserved                       |

| Item | Byte.bit | Terminal Profile   | Ref.           | Release | Status | Support | Mnemonic                        |
|------|----------|--|----------------|---------|--------|---------|---------------------------------|
| 242  | 31.2     | Support of CSG cell discovery (if class "q" is supported)                  | TS 31.111 §5.2 | Rel-9   | C282   |         | PS_CSG_Cell_Discovery           |
| 243  | 31.3     | Confirmation parameters supported for OPEN CHANNEL in Terminal Server Mode | TS 31.111 §5.2 | Rel-9   | C285   |         | PD_Open_Channel_Conf_Parameters |
| 244  | 31.4     | Communication Control for IMS  | TS 31.111 §5.2 | Rel-10  | C286   |         | PD_IMS_COMMUNICATION_CONTROL    |
| 245  | 31.5     | Support of CAT over the modem interface (if class "s" is supported)        | TS 31.111 §5.2 | Rel-10  | C287   |         | PD_CAT_Modem_Interface          |
| 246  | 31.6     | Support for Incoming IMS Data event (if classes "e" and "t" are supported) | TS 31.111 §5.2 | Rel-10  | C288   |         | PD_Incoming_IMS_Data_Event      |
| 247  | 31.7     | Support for IMS Registration event (if classes "e" and "t" are supported)  | TS 31.111 §5.2 | Rel-10  | C289   |         | PD_IMS_Reg_Event                |
| 248  | 31.8     | Reserved by ETSI   | TS 31.111 §5.2 | Rel-10  | O      |         | PD_Reserved                     |
| 249  | 32.1     | IMS support (if class "e" and "t" are supported)                           | TS 31.111 §5.2 | Rel-10  | C290   |         | PD_UICC_ACCESS_IMS              |
| 250  | 32.2     | RFU  | TS 31.111 §5.2 | Rel-10  | X      |         | PD_RFU_250                      |
| 251  | 32.3     | RFU  | TS 31.111 §5.2 | Rel-10  | X      |         | PD_RFU_251                      |
| 252  | 32.4     | RFU  | TS 31.111 §5.2 | Rel-10  | X      |         | PD_RFU_252                      |
| 253  | 32.5     | RFU  | TS 31.111 §5.2 | Rel-10  | X      |         | PD_RFU_253                      |
| 254  | 32.6     | RFU  | TS 31.111 §5.2 | Rel-10  | X      |         | PD_RFU_254                      |
| 255  | 32.7     | RFU  | TS 31.111 §5.2 | Rel-10  | X      |         | PD_RFU_255                      |
| 256  | 32.8     | RFU  | TS 31.111 §5.2 | Rel-10  | X      |         | PD_RFU_256                      |

|      |   |   |
|------|---|---|
| C201 | [void]  | -- [void]   |
| C202 | [void]  | -- [void]   |
| C203 | IF A.1/3 THEN M ELSE O.1  | -- O_Ucs2_Entry   |
| C204 | IF A.1/15 THEN M ELSE O.1   | -- O_Ucs2_Dispatch  |
| C205 | [void]  | -- [void]   |
| C206 | IF A.1/7 THEN M ELSE O  | -- O_Dual_Slot  |
| C207 | IF A.1/12 THEN M ELSE O.1   | -- O_BIP_CSD  |
| C208 | IF (A.1/7 AND A.1/8) THEN M ELSE O.1  | -- O_Dual_Slot AND O_Detach_Rdr   |
| C209 | IF A.1/9 THEN M ELSE O.1  | -- O_Run_At   |
| C210 | [void]  | -- [void]   |
| C211 | [void]  | -- [void]   |
| C212 | IF A.1/10 THEN M ELSE O   | -- O_LB   |
| C213 | IF (A.1/11 AND A.1/85) THEN M for at least one of the bits 1 - 2 of byte 10                           | -- O_Softkey AND O_No_Type_NK   |
| C214 | IF C213 THEN M for at least one, but not for all of the bits 1 - 8 of byte 11                         | -- O_Softkey AND O_No_Type_NK (parameters)  |
| C215 | Void  | -- Void   |
| C216 | IF (A.1/13 AND A.1/84) THEN M ELSE O.1  | -- O_Scr_Siz AND O_No_Type_ND   |
| C217 | Void  | -- Void   |
| C218 | IF (A.1/14 AND A.1/84) THEN M ELSE O.1  | -- O_Scr_Resiz AND O_No_Type_ND   |
| C219 | Void  | -- Void   |
| C220 | IF A.1/18 THEN M ELSE O.1   | -- O_TCP  |
| C221 | IF A.1/17 THEN M ELSE O.1   | -- O_UDP  |
| C222 | IF A.1/21 THEN M ELSE O.1   | -- O_BIP_GPRS   |
| C223 | IF (A.1/12 OR A.1/21 OR A.1/148 OR (A.1.26 AND (A.1/27 OR A.1/28 OR A.1/29 OR A.1/30))) THEN M ELSE O | -- O_BIP_CSD OR O_BIP_GPRS OR O_UICC_ACCESS_IMS OR (O_BIP_Local AND (BIP_BT OR BIP_IrDA OR BIP_RS232 OR BIP_USB)) |
| C224 | IF (A.1.26 AND (A.1/27 OR A.1/28 OR A.1/29 OR A.1/30)) THEN M ELSE O                                  | -- O_BIP_Local AND (BIP_BT OR BIP_IrDA OR BIP_RS232 OR BIP_USB))  |

|      |   |  |
|------|---|--|
| C225 | IF (A.1/26 AND A1.27) THEN M ELSE O.1   | -- O_BIP_Local AND O_BIP_BT  |
| C226 | IF (A.1/26 AND A1.28) THEN M ELSE O.1   | -- O_BIP_Local AND O_BIP_IrDA  |
| C227 | IF (A.1/26 AND A1.29) THEN M ELSE O.1   | -- O_BIP_Local AND<br>O_BIP_RS232  |
| C228 | IF ((A1./50 OR A.1/51 OR A.1/52 OR A.1/53 OR<br>A.1/54 OR A.1/55 OR A.1/56 OR A.1/57 OR A.1/58<br>OR A.1/59 OR A.1/60 OR A.1/61 OR A.1/62) AND<br>A.1/84) THEN M ELSE O.1 | -- (O_TAT_AL OR O_TAT_AC OR<br>O_TAT_AR OR O_TAT_FSN OR<br>O_TAT_FSL OR O_TAT_FSS OR<br>O_TAT_SN OR O_TAT_SB OR<br>O_TAT_SI OR O_TAT_SU OR<br>O_TAT_SS OR O_TAT_STFC<br>OR O_TAT_STFB) AND<br>O_No_Type_ND |
| C229 | IF (A.1/24 AND A.1/84) THEN M ELSE O.1  | -- O_Duration AND<br>O_No_Type_ND  |
| C230 | Void  | -- Void  |
| C231 | IF (C229 OR (A.1/23 AND A.1/85)) AND A1.5 THEN<br>M ELSE O.1  | -- O_Help AND ((O_Duration AND<br>O_No_Type_ND) OR<br>(O_Imm_Resp AND<br>O_No_Type_NK))  |
| C232 | IF (A.1/26 AND A.1/30) THEN M ELSE O.1  | -- O_BIP_Local AND O_USB   |
| C233 | IF A.1/31 THEN M ELSE O.1   | -- O_WML   |
| C234 | IF A.1/32 THEN M ELSE O.1   | -- O_XHTML   |
| C235 | IF A.1/33 THEN M ELSE O.1   | -- O_HTML  |
| C236 | IF A.1/34 THEN M ELSE O.1   | -- O_CHTML   |
| C237 | IF (A.1/37 AND A.1/84) THEN M ELSE O.1  | -- O_Frames AND O_No_Type_ND   |
| C238 | IF A.1/38 THEN M ELSE O   | -- O_MMS   |
| C239 | IF A.1/35 THEN M ELSE O.1   | -- O_Batt  |
| C240 | IF (A.1/36 AND A.1/84 AND A.1/85 AND A.1/87)<br>THEN M ELSE O.1   | -- O_Xmedia Call AND<br>O_No_Type_ND AND<br>O_No_Type_NK AND<br>O_No_Type_NS   |
| C241 | IF (A.1/82 AND A.1/86) THEN M ELSE O.1  | -- O_M_T_Tones AND<br>O_No_Type_NA   |
| C242 | IF (A.1/16 AND A.1/84) THEN M ELSE O.1  | -- O_CC_GPRS AND<br>O_No_Type_ND   |
| C243 | IF (A.1/50 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_AL AND<br>O_No_Type_ND  |
| C244 | IF (A.1/51 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_AC AND<br>O_No_Type_ND  |
| C245 | IF (A.1/52 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_AR AND<br>O_No_Type_ND  |
| C246 | IF (A.1/53 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_FSN AND<br>O_No_Type_ND   |
| C247 | IF (A.1/54 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_FSL AND<br>O_No_Type_ND   |
| C248 | IF (A.1/55 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_FSS AND<br>O_No_Type_ND   |
| C249 | IF (A.1/56 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_SN AND<br>O_No_Type_ND  |
| C250 | IF (A.1/57 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_SB AND<br>O_No_Type_ND  |
| C251 | IF (A.1/58 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_SI AND O_No_Type_ND   |
| C252 | IF (A.1/59 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_SU AND<br>O_No_Type_ND  |
| C253 | IF (A.1/60 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_SS AND<br>O_No_Type_ND  |
| C254 | IF (A.1/61 AND A.1/84) THEN M ELSE O.1  | -- O_TAT_STFC AND<br>O_No_Type_ND  |
| C255 | IF (A.1/62 AND A.1/84) THEN M ELSE O.1  | -- OR O_TAT_STFB AND<br>O_No_Type_ND   |
| C256 | IF C237 THEN M for at least one of the bits 1 - 4 of<br>byte 24   | -- O_Frames AND O_No_Type_ND   |



|      |  |  |
|------|--|--|
| C257 | IF (A.1/12 OR A.1/21 OR A.1/148 OR (A.1.26 AND (A.1/27 OR A.1/28 OR A.1/29 OR A.1/30))) THEN M for at least one of the bits 6 - 8 of byte 13 | -- O_BIP_CSD OR O_BIP_GPRS OR OR O_UICC_ACCESS_IMS OR (O_BIP_Local AND (BIP_BT OR BIP_IrDA OR BIP_RS232 OR BIP_USB)) |
| C258 | IF A.1/66 THEN M ELSE O.1  | -- O_HSDPA   |
| C259 | IF A.1/67 THEN M ELSE O.1  | -- O_UTRAN_PS_Ext_Param  |
| C260 | IF A.1/70 THEN M ELSE O  | -- O_I-WLAN  |
| C261 | IF A.1/71 THEN M ELSE O.1  | -- O_Terminal_Applications   |
| C262 | IF A.1/72 THEN M ELSE O.1  | -- O_TCP_UICC_ServerMode   |
| C263 | IF A.1/73 THEN M ELSE O.1  | -- O_TCP_Terminal_ServerMode   |
| C264 | IF A.1/74 THEN M ELSE O.1  | -- O_UDP_Terminal_ServerMode   |
| C265 | IF A.1/81 THEN M ELSE O.1  | -- O_Geo_Location_Discovery  |
| C266 | IF A.1/83 THEN M ELSE O.1  | -- O_Toolkit_GBA   |
| C267 | IF A.1/84 THEN M ELSE O.1  | -- O_No_Type_ND  |
| C268 | IF A.1/85 THEN M ELSE O.1  | -- O_No_Type_NK  |
| C269 | IF A.1/86 THEN M ELSE O.1  | -- O_No_Type_NA  |
| C270 | IF A.1/87 THEN M ELSE O.1  | -- O_No_Type_NS  |
| C271 | IF A.1/88 THEN M ELSE O.1  | -- O_No_Type_NL  |
| C272 | IF A.1/89 THEN M ELSE O.1  | -- O_USSD_Data_DL  |
| C273 | IF A.1/84 THEN O ELSE O.1  | -- O_No_Type_ND  |
| C274 | IF A.1/84 THEN bit values "0" / "1" allowed ELSE O.1   | -- O_No_Type_ND  |
| C275 | IF A.1/132 OR A.1/133 THEN M ELSE O.1  | -- pc_BIP_eFDD OR pc_BIP_eTDD  |
| C276 | IF A.1/84 THEN O.1 ELSE M  | -- O_No_Type_ND  |
| C277 | IF A.1/85 THEN O.1 ELSE M  | -- O_No_Type_NK  |
| C278 | IF A.1/134 THEN M ELSE O.1   | -- O_UTRAN   |
| C279 | IF NOT A.1/135 THEN M ELSE O   | -- O_EUTRAN_NO_UTRAN_NO_GERAN  |
| C280 | IF A.1/64 THEN M ELSE O  | -- O_GERAN   |
| C281 | IF A.1/136 THEN M ELSE O.1   | -- O_Event_CSG_Cell_Selection  |
| C282 | IF A.1/137 THEN M ELSE O.1   | -- O_CSG_Cell_Discovery  |
| C283 | IF (A.1/139 OR A.1/140) THEN M ELSE O.1  | -- pc_eFDD OR pc_eTDD  |
| C284 | IF A.1/143 THEN M ELSE O.1   | -- O_Direct_Com_Channel  |
| C285 | IF (A.1/73 AND A.1/84 AND A.1/85) THEN M ELSE O.1  | -- O_TCP_Terminal_ServerMode AND O_No_Type_ND AND O_No_Type_NK   |
| C286 | IF A.1/144 THEN M ELSE O.1   | -- O_CC_IMS  |
| C287 | IF A.1/145 THEN M ELSE O.1   | -- O_CAT_Modem_Interface   |
| C288 | IF A.1/146 THEN M ELSE O.1   | -- O_Event_Incoming_IMS_Data   |
| C289 | IF A.1/147 THEN M ELSE O.1   | -- O_Event_IMS_Registration  |
| C290 | IF A.1/148 THEN M ELSE O.1   | -- O_UICC_ACCESS_IMS   |
| O.1  | Allowed: Bit value ="0" or bit not present   |  |

## Annex C (informative): Change history

| CP-doc    | CR   | REV | Meeting | SUBJECT  | CAT | NEW_VERS |
|-----------|------|-----|---------|--|-----|----------|
| TP-050016 | -    | -   | 2.0.0   | Approved TP-27, March 2005   |     | 6.0.0    |
| CP-050144 | 0001 | -   | CT-28   | Correction of coding in MT Call Event  | F   | 6.1.0    |
| CP-050144 | 0002 | -   | CT-28   | Correction of applicability table  | F   | 6.1.0    |
| CP-050144 | 0003 | -   | CT-28   | Essential Corrections  | F   | 6.1.0    |
| CP-050144 | 0004 | -   | CT-28   | Correction of coding in MT Call Event  | F   | 6.1.0    |
| CP-050144 | 0005 | -   | CT-28   | Removal of GET RESPONSE references   | F   | 6.1.0    |
| CP-050447 | 0006 | -   | CT-29   | Rel-6: Correction of release dependent EF values   | F   | 6.2.0    |
| CP-050447 | 0007 | -   | CT-29   | Correction of applicability and terminal profile support tables                                  | F   | 6.2.0    |
| CP-050447 | 0008 | -   | CT-29   | Correction of EF_BDN coding  | F   | 6.2.0    |
| CP-050447 | 0009 | -   | CT-29   | Incorrect Dialling Number string in clause 27.22.4.13.1 SEQ 1.9 for PCS 1900                     | F   | 6.2.0    |
| CP-050447 | 0010 | -   | CT-29   | Essential corrections in display icons Setup Menu and Select Item                                | f   | 6.2.0    |
| CP-050447 | 0011 | -   | CT-29   | Incorrect Ti Flag value for SET UP 1.4.1 in clause 27.22.4.16.1                                  | F   | 6.2.0    |
| CP-050447 | 0012 | -   | CT-29   | Correction of TP-MR (TP Message Reference) of the SMS SUBMIT TPDU submitted to the USS (Network) | F   | 6.2.0    |
| CP-050447 | 0013 | -   | CT-29   | Corrections in the Logical description and BER encoding in clause 27.22.6.2 and 27.22.4.11       | F   | 6.2.0    |
| CP-050447 | 0014 | -   | CT-29   | Incorrect DCS in SMS-CB data download tests  | F   | 6.2.0    |
| CP-050447 | 0015 | -   | CT-29   | Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY USIM                         | F   | 6.2.0    |
| CP-050447 | 0016 | -   | CT-29   | Introduction of BDN tests for terminals not supporting BDN                                       | B   | 6.2.0    |
| CP-050447 | 0017 | -   | CT-29   | Essential Corrections  | F   | 6.2.0    |
| CP-050447 | 0018 | -   | CT-29   | Incorrect SMS-PP 1.4.1 TPDU in clause 27.22.4.22.1   | F   | 6.2.0    |
| CP-050447 | 0019 | -   | CT-29   | Missing interactions in Bearer Independent Protocol test cases                                   | F   | 6.2.0    |
| CP-050447 | 0020 | -   | CT-29   | Correction of Refresh tests  | F   | 6.2.0    |
| CP-050447 | 0022 | -   | CT-29   | Applicability of TC 27.22.4.7.1 and TCs related to FDN and BDN                                   | F   | 6.2.0    |
| CP-050447 | 0023 | -   | CT-29   | Essential correction to Terminal Profile table E.1   | F   | 6.2.0    |
| CP-050447 | 0024 | -   | CT-29   | Correction of CB message identifier  | F   | 6.2.0    |
| CP-050447 | 0025 | -   | CT-29   | Rel-6: Addition of new UCS2 Tests  | B   | 6.2.0    |
| CP-050447 | 0027 | -   | CT-29   | Incorrect Coding of SMS-PP (Data download) Message in clause 27.22.4.7.1 and 27.22.5.1           | F   | 6.2.0    |
| -         | -    | -   | -       | 2005-10: Editorial corrections due to the CRs approved at CP-29                                  | -   | 6.2.1    |
| CP-050495 | 0028 | -   | CT-30   | Correction of Send SS (UCS2) tests   | F   | 6.3.0    |
| CP-050495 | 0029 | -   | CT-30   | Essential Corrections in clause 27.22.4.11   | F   | 6.3.0    |
| CP-050495 | 0030 | -   | CT-30   | Corrections to Select Item (icons support)   | F   | 6.3.0    |
| CP-050495 | 0031 | -   | CT-30   | 27.22.7.4.1 Location Status Event (normal)   | F   | 6.3.0    |
| CP-050495 | 0032 | -   | CT-30   | Essential Corrections of Set Up Menu test  | F   | 6.3.0    |
| CP-050495 | 0033 | -   | CT-30   | Correction of applicability table and related addition of missing test sequences                 | F   | 6.3.0    |
| CP-050495 | 0034 | -   | CT-30   | Correction in SMS-PP 1.4.1 TPDU of clause 27.22.4.22.1   | F   | 6.3.0    |
| CP-050495 | 0035 | -   | CT-30   | Essential Corrections of SMS-PP download message in Refresh test case                            | F   | 6.3.0    |
| CP-050495 | 0036 | -   | CT-30   | Essential Correction in MO SHORT MESSAGE CONTROL BY USIM Deletion of sequence 1.9                | F   | 6.3.0    |
| CP-050495 | 0037 | -   | CT-30   | Deletion of SEQ 1.3 in clause 27.22.4.13.1   | F   | 6.3.0    |
| CP-060013 | 0041 | -   | CT-31   | Deletion of Send Data test sequence  | F   | 6.4.0    |
| CP-060013 | 0042 | -   | CT-31   | Essential correction of Provide Local Information (IMEI) test                                    | F   | 6.4.0    |
| CP-060013 | 0044 | -   | CT-31   | Essential Correction in SEQ 1.8 of clause 27.22.8  | F   | 6.4.0    |
| CP-060013 | 0045 | -   | CT-31   | Essential correction on 27.22.7.3.1 Call Disconnected Event                                      | F   | 6.4.0    |
| CP-060013 | 0050 | -   | CT-31   | Essential correction of Channel Data length in clause 27.22.4.30                                 | F   | 6.4.0    |
| CP-060014 | 0048 | -   | CT-31   | Essential Corrections in clause 27.22.4.11   | F   | 6.4.0    |
| CP-060014 | 0052 | -   | CT-31   | Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY SIM                          | F   | 6.4.0    |
| CP-060014 | 0049 | -   | CT-31   | Essential correction in SEQ 1.4 of clause 27.22.4.11.1 SEND SS (normal)                          | F   | 6.4.0    |
| CP-060014 | 0047 | -   | CT-31   | Essential corrections of Run AT Command tests  | F   | 6.4.0    |
| CP-060014 | 0053 | -   | CT-31   | Essential corrections to SET UP CALL test sequences  | F   | 6.4.0    |
| CP-060015 | 0055 | -   | CT-31   | Essential Correction in TERMINAL RESPONSE coding of clause 27.22.4.31                            | F   | 6.4.0    |
| CP-060015 | 0056 | -   | CT-31   | Essential corrections to Timer Expiration tests  | F   | 6.4.0    |
| CP-060015 | 0054 | -   | CT-31   | BER-TLV suppressions   | F   | 6.4.0    |
| CP-060157 | 0059 | -   | CT-31   | Add SMS PP Data Download RP-ERROR Test Case  | B   | 6.4.0    |
| CP-060022 | 0043 | -   | CT-31   | Essential Correction in SEQ 1.7 of clause 27.22.4.13.1   | F   | 6.4.0    |
| CP-060022 | 0046 | -   | CT-31   | Essential correction of Refresh test   | F   | 6.4.0    |
| CP-060022 | 0051 | -   | CT-31   | Essential correction of Channel Data length in Result TLV of clause                              | F   | 6.4.0    |

| CP-doc    | CR   | REV | Meeting | SUBJECT  | CAT | NEW_VERS |
|-----------|------|-----|---------|--|-----|----------|
|           |      |     |         | 27.22.4.30   |     |          |
| CP-060022 | 0060 | -   | CT-31   | CR 31.124 Rel-6: Insertion of missing REFRESH (IMSI changing procedure) test cases             | F   | 6.4.0    |
| CP-060022 | 0057 | -   | CT-31   | Essential corrections of references  | F   | 6.4.0    |
| CP-060241 | 0061 | -   | CT-32   | Proposal to the TS 31.124 Split by referencing the relevant USAT Test procedures to TS 102 384 |     | 6.5.0    |
| CP-060241 | 0062 | -   | CT-32   | Essential corrections on test cases 27.22.6.3 and 27.22.6.4 using record 2 in EF FDN           |     | 6.5.0    |
| CP-060241 | 0063 | -   | CT-32   | Essential corrections on TC 27.22.6.4 sequence 4.1   |     | 6.5.0    |
| CP-060241 | 0064 | -   | CT-32   | Essential corrections on SEND SHORT MESSAGE test cases   |     | 6.5.0    |
| CP-060241 | 0065 | -   | CT-32   | Essential correction of text attributes tests  |     | 6.5.0    |
| CP-060241 | 0066 | -   | CT-32   | Definition of appropriate QoS in BIP test cases related to GPRS for 3G                         |     | 6.5.0    |
| CP-060241 | 0071 | -   | CT-32   | Essential correction of Refresh test in 27.22.7.4.2, seq. 2.4                                  |     | 6.5.0    |
| CP-060241 | 0074 | -   | CT-32   | Essential corrections of RUN AT Command tests  |     | 6.5.0    |
| CP-060241 | 0067 | -   | CT-32   | Essential correction of tables B.1 and E.1   |     | 6.5.0    |
| CP-060242 | 0068 | -   | CT-32   | Essential Correction in REGISTER 1.2B message coding of clause 27.22.4.11.1 SEND SS (normal)   | F   | 6.5.0    |
| CP-060242 | 0069 | -   | CT-32   | Essential correction of 27.22.4.13.1 SET UP CALL, seq 1.4                                      | F   | 6.5.0    |
| CP-060242 | 0070 | -   | CT-32   | Essential correction of second card reader test applicability                                  | F   | 6.5.0    |
| CP-060242 | 0072 | -   | CT-32   | Correction of TON/NPI coding for Call Control Test case  | F   | 6.5.0    |
| CP-060242 | 0073 | -   | CT-32   | Essential corrections on 27.22.4.11.1 sequence. 1.2  | F   | 6.5.0    |
| CP-060242 | 0075 | -   | CT-32   | Essential correction of BIP tests  | F   | 6.5.0    |
| CP-060389 | 0082 | 1   | CT-33   | Wrong reference inside test requirement of TC 27.22.7.2.2                                      | F   | 6.6.0    |
| CP-060389 | 0087 | 1   | CT-33   | Essential corrections of applicability table   | F   | 6.6.0    |
| CP-060389 | 0088 | 1   | CT-33   | Essential correction of IMEISV coding for Provide Local Information                            | F   | 6.6.0    |
| CP-060389 | 0089 | 1   | CT-33   | Essential corrections of text attribute tests for Send USSD and Close channel                  | F   | 6.6.0    |
| CP-060389 | 0090 | 1   | CT-33   | Proposal to the TS 31.124 Split by referencing the relevant USAT Test procedures to TS 102 384 | F   | 6.6.0    |
| CP-060389 | 0091 | 1   | CT-33   | Correction to the UCS2 coding in Setup Call test   | F   | 6.6.0    |
| CP-060389 | 0092 | 1   | CT-33   | Essential correction of RUN AT Command for text attribute tests                                | F   | 6.6.0    |
| CP-060389 | 0095 | 1   | CT-33   | Correction of RECEIVE DATA tests   | F   | 6.6.0    |
| CP-060389 | 0096 | 1   | CT-33   | Correction of terminology for USIM Service Table   | F   | 6.6.0    |
| CP-060389 | 0097 | 1   | CT-33   | Correction of 2 <sup>nd</sup> alpha identifier usages in SET UP CALL tests                     | F   | 6.6.0    |
| CP-060389 | 0098 | 1   | CT-33   | Correction of various typographical errors   | F   | 6.6.0    |
| CP-060389 | 0101 | 1   | CT-33   | Essential corrections to OPEN CHANNEL text attribute test sequences                            | F   | 6.6.0    |
| CP-060389 | 0078 | 1   | CT-33   | Correction of "Precedence class" values in Bearer Independent Protocol test cases              | F   | 6.6.0    |
| CP-060389 | 0076 | 1   | CT-33   | Essential corrections on PROVIDE LOCAL INFORMATION test sequences                              | F   | 6.6.0    |
| CP-060389 | 0080 | 2   | CT-33   | Essential corrections on test sequences using the TLV data object Location Information         | F   | 6.6.0    |
| CP-060389 | 0100 | 2   | CT-33   | Essential corrections to SET UP CALL (UCS2 Display) test sequences                             | F   | 6.6.0    |
| CP-060389 | 0081 | 3   | CT-33   | Essential corrections to REFRESH(normal) test sequence   | F   | 6.6.0    |
| CP-060389 | 0102 | 1   | CT-33   | Essential corrections to SEND SS display tests concerning longForwardedToNumber                | F   | 6.6.0    |
| CP-060475 | 0086 | 1   | CT-33   | Essential corrections of MMI entries in table E.1  | F   | 6.6.0    |
| CP-060475 | 0077 | 2   | CT-33   | Corrections to SET UP CALL test case 27.22.4.13.1  | F   | 6.6.0    |
| CP-060475 | 0099 | 1   | CT-33   | Essential corrections to SEND SS concerning longForwardedToNumber                              | F   | 6.6.0    |
| CP-060475 | 0094 | 2   | CT-33   | Corrections to MO SHORT MESSAGE CONTROL BY USIM tests  | F   | 6.6.0    |
| CP-060517 | 0084 | 1   | CT-33   | Essential corrections Set Up Call, seq. 1.9  | F   | 6.6.0    |
| CP-060540 | 0103 | -   | CT-34   | Correction of APN Coding in Open Channel test case   | F   | 6.7.0    |
| CP-060540 | 0085 | 2   | CT-34   | Essential corrections of BIP entries in table E.1  | F   | 6.7.0    |
| CP-060540 | 0110 | 2   | CT-34   | Essential correction of Result TLV handling  | F   | 6.7.0    |
| CP-060540 | 0111 | -   | CT-34   | Essential correction of expected sequence in OPEN CHANNEL test case                            | F   | 6.7.0    |
| CP-060727 | 0105 | -   | CT-34   | Some of the Applicability table content is missing when printed or in Print Layout mode        | F   | 6.7.0    |
| CP-060727 | 0106 | 1   | CT-34   | Correction to SET UP CALL  | F   | 6.7.0    |
| CP-060727 | 0107 | -   | CT-34   | Correction to SEND SS  | F   | 6.7.0    |
| CP-060727 | 0058 | 1   | CT-34   | Addition of REFRESH USIM Application Reset   | B   | 6.7.0    |
| CP-060727 | 0108 | -   | CT-34   | Essential corrections on SEND SS (UCS2 display) test cases                                     | F   | 6.7.0    |
| CP-060727 | 0109 | -   | CT-34   | Essential corrections on REFRESH TC 27.22.4.7.1  | F   | 6.7.0    |
| CP-060727 | 0104 | 1   | CT-34   | Corrections in the interpretation of Katakana Character  | F   | 6.7.0    |
| CP-070063 | 0115 | -   | CT-35   | Essential correction of 27.22.5.2  | F   | 6.8.0    |
| CP-070063 | 0113 | 1   | CT-35   | Essential correction of Terminal Profile Support table   | F   | 6.8.0    |
| CP-070063 | 0112 | 1   | CT-35   | Essential correction of 27.22.4.13.1 Expected Sequence 1.7                                     | F   | 6.8.0    |
| CP-070065 | 0116 | -   | CT-35   | Essential correction of 27.22.4.7, seq. 1.7  | F   | 6.8.0    |
| CP-070065 | 0119 | -   | CT-35   | Essential correction of TC 27.22.7.4.1   | F   | 6.8.0    |
| CP-070065 | 0120 | -   | CT-35   | CR implementation error correction for 27.22.6.2 SEQ 2.2                                       | F   | 6.8.0    |
| CP-070065 | 0121 | -   | CT-35   | CR implementation error correction for 27.22.4.11.1 SEQ 1.4A                                   | F   | 6.8.0    |
| CP-070065 | 0117 | 1   | CT-35   | Essential clarification of Network Simulator selection   | F   | 6.8.0    |
| CP-070065 | 0122 | 1   | CT-35   | Essential correction of 27.22.4.7.2 SEQ 2.2  | F   | 6.8.0    |

| CP-doc    | CR   | REV | Meeting | SUBJECT  | CAT | NEW_VERS |
|-----------|------|-----|---------|--|-----|----------|
| CP-070065 | 0124 | 2   | CT-35   | Addition of new expected sequence to the SMS-PP Data Download test case  | C   | 6.8.0    |
| CP-070065 | 0125 | 2   | CT-35   | Addition of a new expected sequence to the SMS-CB Data Download test case  | F   | 6.8.0    |
| CP-070297 | 0127 | 2   | CT-36   | Essential correction of test case applicability  | F   | 6.9.0    |
| CP-070297 | 0128 | -   | CT-36   | Correction of 27.22.4.2 applicability  | F   | 6.9.0    |
| CP-070297 | 0129 | 1   | CT-36   | Essential correction of test case applicability for 27.22.6.1  | A   | 6.9.0    |
| CP-070297 | 0130 | 1   | CT-36   | Essential correction on 27.22.8  | A   | 6.9.0    |
| CP-070297 | 0131 | -   | CT-36   | Essential correction on 27.22.5.1  | F   | 6.9.0    |
| CP-070297 | 0132 | -   | CT-36   | Essential correction on 27.22.4.11.1 sequence. 1.4 B   | F   | 6.9.0    |
| CP-070297 | 0133 | -   | CT-36   | Correction of reference to ISO/IEC 7816-3  | A   | 6.9.0    |
| -         | -    | -   | 2007-06 | Update to Rel-7 version (MCC)  | -   | 7.0.0    |
| CP-070610 | 0136 | 1   | CT-37   | Essential Correction to 27.22.6.2  | F   | 7.1.0    |
| CP-070619 | 0137 | -   | CT-37   | Essential correction of variable timeout test case applicability   | F   | 7.1.0    |
| CP-070610 | 0138 | -   | CT-37   | Essential correction to 27.22.4.13.1, seq. 1.9   | F   | 7.1.0    |
| CP-070619 | 0139 | -   | CT-37   | Essential Correction to 27.22.6.1, Seq. 1.1  | F   | 7.1.0    |
| CP-070619 | 0140 | -   | CT-37   | Essential correction of references   | F   | 7.1.0    |
| CP-070619 | 0141 | 1   | CT-37   | Essential correction of 27.22.4.13.1, sequence 1.7   | F   | 7.1.0    |
| CP-070619 | 0142 | 1   | CT-37   | Test Cases dependant on Radio Access Clarification   | F   | 7.1.0    |
| CP-070619 | 0143 | -   | CT-37   | Essential correction of 27.22.4.7.1, sequence 1.6  | F   | 7.1.0    |
| CP-070843 | 0145 | 1   | CT-38   | Essential correction of 27.22.8, sequence 1.3 in order to remove verification of the Alpha Identifier                                | A   | 7.2.0    |
| CP-070843 | 0154 | 1   | CT-38   | Essential correction of 27.22.4.7.1, sequence 1.6 caring of the missing requirements in TS 31.111                                    | A   | 7.2.0    |
| CP-070843 | 0146 | 1   | CT-38   | Essential correction of 27.22.4.26.2.4.2, seq. 2.2 in order to remove the possibility of retrieving a deleted previously visited URL | A   | 7.2.0    |
| CP-070843 | 0155 | -   | CT-38   | Correction to add optional support of Call Hold Supplementary Service  | A   | 7.2.0    |
| CP-070847 | 0147 | -   | CT-38   | Essential correction terminal profile indication for Local Connection Event  | F   | 7.2.0    |
| CP-070847 | 0149 | -   | CT-38   | Essential correction on test case 27.22.4.5.1  | F   | 7.2.0    |
| CP-070847 | 0150 | -   | CT-38   | Definition of test sequence 1.7 in test case 27.22.4.15  | F   | 7.2.0    |
| CP-070847 | 0151 | -   | CT-38   | Definition of test sequence 1.12 and 1.13 in test case 27.22.4.15  | F   | 7.2.0    |
| CP-070847 | 0152 | -   | CT-38   | Essential correction on test case 27.22.4.28.2.1 correcting wrong implementation of CR 0078 rev1 in C6-060547                        | F   | 7.2.0    |
| CP-070847 | 0148 | 1   | CT-38   | Introduction of Rel-7 test case applicability  | F   | 7.2.0    |
| CP-080172 | 0156 | -   | CT-39   | Essential correction to 27.22.4.15   | F   | 7.3.0    |
| CP-080172 | 0157 | -   | CT-39   | Essential correction of 27.22.8, seq. 1.3  | F   | 7.3.0    |
| CP-080172 | 0158 | 1   | CT-39   | Essential correction regarding terminal capabilities   | F   | 7.3.0    |
| CP-080172 | 0159 | -   | CT-39   | Essential correction to network dependency of several tests  | F   | 7.3.0    |
| CP-080388 | 0160 | 1   | CT-40   | Essential correction of icon test case applicability   | F   | 7.4.0    |
| CP-080388 | 0161 | 2   | CT-40   | Essential correction to 27.22.6.4  | F   | 7.4.0    |
| CP-080388 | 0163 | 3   | CT-40   | Essential correction of test case applicability of 27.22.6.2 and 27.22.4.11  | F   | 7.4.0    |
| CP-080588 | 0164 | -   | CT-41   | Essential correction of TC 27.22.4.12.1 Seq. 1.6   | F   | 7.5.0    |
| CP-080588 | 0165 | -   | CT-41   | Essential correction of test case applicability  | F   | 7.5.0    |
| CP-080588 | 0166 | -   | CT-41   | Essential correction of TC 27.22.7.8.1   | F   | 7.5.0    |
| CP-080906 | 0168 | -   | CT-42   | Essential correction of TC 27.22.6.5 seq. 5.1 applicability  | F   | 7.6.0    |
| CP-080906 | 0169 | -   | CT-42   | Essential correction of bearer parameters in browser tests   | F   | 7.6.0    |
| CP-080948 | 0170 | 3   | CT-42   | Pre-conditions for Launch browser  | A   | 7.6.0    |
| CP-080948 | 0171 | -   | CT-42   | Essential correction of 27.22.4.26.2 Seq. 2.2  | A   | 7.6.0    |
| -----     | -    | -   | SP-42   | Upgrade to Rel-8   | -   | 8.0.0    |
| CP-080194 | 0173 | 1   | CT-43   | Inclusion of Rel-8 test case applicability and Rel-8 feature indication in the terminal profile content                              | F   | 8.1.0    |
| CP-080194 | 0174 | -   | CT-43   | Essential correction of tables B.1 and E.1   | F   | 8.1.0    |
| CP-080194 | 0176 | 1   | CT-43   | Essential correction to BIP tests - usage of ME's default channel identifier   | A   | 8.1.0    |
| CP-090459 | 0175 | 3   | CT-44   | Introduction of steering of roaming test cases   | B   | 8.2.0    |
| CP-090460 | 0177 | 1   | CT-44   | Test case and test case applicability changes for terminals with reduced USAT capabilities   | F   | 8.2.0    |
| CP-090718 | 0178 | 3   | CT-45   | Essential correction to icon test applicability  | F   | 8.3.0    |
| CP-090718 | 0179 | 1   | CT-45   | Update of table E.1 regarding E-UTRAN support indication   | F   | 8.3.0    |
| CP-090718 | 0180 | 1   | CT-45   | Essential correction of 27.22.6.1 sequence 1.9   | F   | 8.3.0    |
| CP-090718 | 0181 | -   | CT-45   | Essential correction of 27.22.4.7.3, Seq. 3.2  | F   | 8.3.0    |
| CP-090718 | 0182 | -   | CT-45   | Essential correction of applicability and terminal profile table   | F   | 8.3.0    |
| -----     | -    | -   | -       | Correction of inconsistency spotted at implementation  | -   | 8.3.1    |
| CP-090999 | 0186 | 1   | CT-46   | Essential correction of 27.22.4.7.3  | F   | 8.4.0    |
| CP-091000 | 0187 | 1   | CT-46   | Update of TS 31.124 for terminals supporting E-UTRAN   | F   | 8.4.0    |
| CP-091000 | 0188 | 2   | CT-46   | Introduction of OPEN CHANNEL tests for E-UTRAN   | F   | 8.4.0    |
| -----     | -    | -   | SA-46   | Upgrade to Rel-9   | -   | 9.0.0    |
| CP-100192 | 0189 | 1   | CT-47   | Introduction of BIP tests for E-UTRAN  | B   | 9.1.0    |
| CP-100192 | 0190 | 1   | CT-47   | Introduction of Network Rejection Event test   | B   | 9.1.0    |
| CP-100192 | 0191 | 1   | CT-47   | Introduction of Provide Local Information tests for E-UTRAN  | B   | 9.1.0    |
| CP-100192 | 0192 | 1   | CT-47   | Introduction of Event Download – Location Status tests for E-UTRAN   | B   | 9.1.0    |

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| CP-100191                 | 0194 | -   | CT-47   | Introduction of Rel-9 test case applicability   | F   | 9.1.0    |
| CP-100179                 | 0195 | 1   | CT-47   | Correction of typo error  | A   | 9.1.0    |
| CP-100191                 | 0196 | 2   | CT-47   | Dual Open Channel tests in TCP mode   | B   | 9.1.0    |
| CP-100191                 | 0197 | 1   | CT-47   | Open Channel tests for TCP mode and Default Bearer  | B   | 9.1.0    |
| CP-100191                 | 0198 | 1   | CT-47   | Correction of optional features table   | F   | 9.1.0    |
| CP-100179                 | 0199 | 3   | CT-47   | Correction of applicability for 'no alpha identifier presented' sequences                 | A   | 9.1.0    |
| CP-100179                 | 0200 | -   | CT-47   | Essential correction to the condition table   | A   | 9.1.0    |
| CP-100395                 | 0202 | -   | CT-48   | Essential correction of 27.22.4.31.1 Seq. 1.5   | F   | 9.2.0    |
| CP-100395                 | 0205 | -   | CT-48   | Essential correction of Table E.1 regarding Width reduction when in a menu                | F   | 9.2.0    |
| CP-100395                 | 0207 | -   | CT-48   | Correction to TAC coding in Provide Local Information test                                | F   | 9.2.0    |
| CP-100395                 | 0201 | 1   | CT-48   | Essential correction of table E.1   | B   | 9.2.0    |
| CP-100395                 | 0204 | 1   | CT-48   | Essential correction of 27.22.4.27.2 Seq 2.10 test case applicability                     | F   | 9.2.0    |
| CP-100395                 | 0206 | 1   | CT-48   | Correction to applicability table   | F   | 9.2.0    |
| CP-100395                 | 0208 | 1   | CT-48   | Network Search mode test  | B   | 9.2.0    |
| CP-100395                 | 0209 | 1   | CT-48   | Event download, Network Search mode test  | B   | 9.2.0    |
| CP-100395                 | 0202 | -   | CT-48   | Essential correction of 27.22.4.31.1 Seq. 1.5   | F   | 9.2.0    |
| CP-100396                 | 0203 | 1   | CT-48   | Introduction of Steering of Roaming test for E-UTRAN                                      | B   | 9.2.0    |
| CP-100591                 | 0218 | 3   | CT-49   | Essential correction to Open Channel 27.22.4.27.2 sequence 2.4 test                       | A   | 9.3.0    |
| CP-100592                 | 0212 | 1   | CT-49   | Update of references  | F   | 9.3.0    |
| CP-100593                 | 0220 | 1   | CT-49   | Essential correction to test case applicability of letter class C features                | F   | 9.3.0    |
| CP-100593                 | 0214 | 1   | CT-49   | Correction of 27.22.4.28.3. Seq 3.2   | F   | 9.3.0    |
| CP-100593                 | 0219 | 1   | CT-49   | Essential correction to SET UP CALL 27.22.4.13 sequence 1.1                               | F   | 9.3.0    |
| CP-100613                 | 0215 | 3   | CT-49   | Addition of Access Technology change event download tests for E-UTRAN                     | B   | 9.3.0    |
| CP-100613                 | 0216 | 3   | CT-49   | Addition of Open Channel test related to E-UTRAN network                                  | C   | 9.3.0    |
| CP-100613                 | 0222 | 1   | CT-49   | Addition of Call Control tests for E-UTRAN  | B   | 9.3.0    |
| CP-100620                 | 0221 | 2   | CT-49   | Essential correction of test 27.22.4.9.3  | F   | 9.3.0    |
| CP-100835                 | 0242 | 1   | CT-50   | Addition of Provide local information test , discovery of surrounding CSG cell            | B   | 9.4.0    |
| CP-100833                 | 0234 | 1   | CT-50   | Clarification of 'ELSE' parts in Table E.1  | F   | 9.4.0    |
| CP-100834                 | 0235 | 1   | CT-50   | Correction of TCP/UDP referencing errors in Table E.1                                     | F   | 9.4.0    |
| CP-100834                 | 0236 | 1   | CT-50   | LTE test cases - specifying that default E-UTRAN UICC should be used                      | F   | 9.4.0    |
| CP-100834                 | 0238 | 1   | CT-50   | Correction of SET UP CALL sequence 1.1  | F   | 9.4.0    |
| CP-100830                 | 0233 | 1   | CT-50   | Definition of E-UTRAN/EPC ISIM-UICC for ISIM related testing                              | B   | 9.4.0    |
| CP-100834                 | 0239 | 1   | CT-50   | Correction of references to non-existent data items in CLOSE CHANNEL(E-UTRAN/EPC)         | F   | 9.4.0    |
|                           |      |     |         | Correction of errors in implementation of CR 234 (MCC).                                   | -   | 9.4.1    |
| <a href="#">CP-110231</a> | 0217 | 4   | CT-51   | Addition of Provide Local Information tests for multiple access technologies              | B   | 9.5.0    |
| <a href="#">CP-110230</a> | 0243 | 4   | CT-51   | Introduction ISIM related SMS-PP Data Download tests                                      | B   | 9.5.0    |
| <a href="#">CP-110230</a> | 0244 | 6   | CT-51   | Introduction ISIM related Send Short Message tests  | B   | 9.5.0    |
| <a href="#">CP-110231</a> | 0245 | 2   | CT-51   | Optimization of SEND SMS test cases   | C   | 9.5.0    |
| <a href="#">CP-110231</a> | 0246 | 1   | CT-51   | Optimization of SMS PP Download test case   | C   | 9.5.0    |
| <a href="#">CP-110231</a> | 0248 |     | CT-51   | Introduction of Polling Off test for E-UTRAN  | B   | 9.5.0    |
| <a href="#">CP-110231</a> | 0250 |     | CT-51   | Essential correction on BIP TCs for E-UTRAN/EPC   | F   | 9.5.0    |
|                           |      |     | SP-51   | Automatic upgrade from previous version 9.5.0   |     | 10.0.0   |
| <a href="#">CP-110503</a> | 0241 | 3   | CT-52   | Addition of Event download test, CSG cell Selection                                       | F   | 10.1.0   |
| <a href="#">CP-110504</a> | 0252 |     | CT-52   | Introduction ISIM related SMS-PP Data Download tests                                      | F   | 10.1.0   |
| <a href="#">CP-110504</a> | 0253 | 1   | CT-52   | Introduction ISIM related Send Short Message tests  | F   | 10.1.0   |
| <a href="#">CP-110719</a> | 0255 | 3   | CT-53   | Essential correction of the Terminal Profile entries in table E.1                         | F   | 10.2.0   |
| <a href="#">CP-110719</a> | 0258 | 1   | CT-53   | Essential correction of Send Short message tests  | F   | 10.2.0   |
| <a href="#">CP-110592</a> | 0259 | 1   | CT-53   | Essential correction of Data Destination Address settings in BIP and Launch Browser tests | A   | 10.2.0   |
| <a href="#">CP-110719</a> | 0261 | 1   | CT-53   | Essential Correction to Tag length in Provide Local Information test                      | F   | 10.2.0   |
| <a href="#">CP-110719</a> | 0262 | 1   | CT-53   | Essential Correction to Network Rejection Event test                                      | F   | 10.2.0   |
|                           |      |     |         | Correction of implementation error in CR 255r3 (MCC)                                      |     | 10.2.1   |
| CP-110904                 | 0263 |     | CT-54   | Essential correction of SMS-PP Data Download test cases                                   | F   | 10.3.0   |
| CP-110904                 | 0265 | 1   | CT-54   | Essential correction to Channel Status After Link Dropped in E-UTRA                       | F   | 10.3.0   |
| CP-110904                 | 0266 | 1   | CT-54   | Correction to test sequence content 4.3 and 4.4 for test case 27.22.4.1 of Table B.1      | F   | 10.3.0   |
| CP-110904                 | 0256 | 2   | CT-54   | Essential correction to Steering of Roaming test case                                     | F   | 10.3.0   |
| CP-110906                 | 0264 | 1   | CT-54   | Essential correction to SMS-CB Applicability  | A   | 10.3.0   |
| CP-110906                 | 0257 | 2   | CT-54   | Essential correction to Play Tone test  | A   | 10.3.0   |
| CP-110907                 | 0267 |     | CT-54   | Correction of incorrect implementation of CR 255r3  | F   | 10.3.0   |
| CP-120151                 | 0269 | 1   | CT-55   | Test applicability correction of Open Channel with user rejection tests                   | A   | 10.4.0   |
| CP-120152                 | 0271 | 2   | CT-55   | Essential correction to test 27.22.4.15 Seq. 1.15   | F   | 10.4.0   |
| CP-120153                 | 0268 | 3   | CT-55   | Introduction of REFRESH with AID test   | B   | 10.4.0   |
| CP-120394                 | 0270 | 2   | CT-56   | Test applicability correction for terminals operating in PS mode                          | A   | 10.5.0   |
| CP-120394                 | 0275 | 1   | CT-56   | Correction of expected Terminal Reponse for unsuccessful Open Channel commands            | A   | 10.5.0   |

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| CP-120395 | 0277 |     | CT-56   | Essential corrections to the Network Rejection Event test cases                               | F   | 10.5.0   |
| CP-120395 | 0279 |     | CT-56   | Introduction of test cases for Send Short Message and SMS PP data download over SGs (E-UTRAN) | B   | 10.5.0   |
| CP-120395 | 0276 | 1   | CT-56   | Essential correction of Open Channel with Bearer type 0B tests                                | F   | 10.5.0   |
| CP-120395 | 0278 | 1   | CT-56   | Test modification for Provide Local Information IMEI and IMEISV testing                       | C   | 10.5.0   |
| CP-120629 | 0282 | 2   | CT-57   | Essential correction of Launch Browser tests  | A   | 10.6.0   |
| CP-120629 | 0286 | 2   | CT-57   | Essential correction of Launch Browser tests  | A   | 10.6.0   |
| CP-120630 | 0283 |     | CT-57   | Correction of Terminal Profile entries in table E.1   | F   | 10.6.0   |
| CP-120630 | 0281 | 1   | CT-57   | Correction of test sequence for PROVIDE LOCAL INFORMATION, Discovery of surrounding CSG cells | F   | 10.6.0   |
| CP-120631 | 0280 | 1   | CT-57   | Corrections to test sequence 27.22.7.18.1 for CSG Cell Selection                              | F   | 10.6.0   |
| CP-120632 | 0284 |     | CT-57   | Correction of network simulator dependencies of the tests in 27.22.7.4                        | F   | 10.6.0   |
| CP-120633 | 0272 | 5   | CT-57   | Addition of UICC Access to IMS tests  | B   | 10.6.0   |
|           |      |     | SP-57   | Automatic upgrade to Rel-11   |     | 11.0.0   |
| CP-120875 | 0287 | 1   | CT-58   | TERMINAL RESPONSE in steering of roaming test steps   | F   | 11.1.0   |
| CP-130149 | 0290 | 1   | CT-59   | Applicability of tests for MEs with reduced capabilities                                      | A   | 11.2.0   |

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# History

| <b>Document history</b> |               |             |
|-------------------------|---------------|-------------|
| V11.0.0                 | November 2012 | Publication |
| V11.1.0                 | January 2013  | Publication |
| V11.2.0                 | April 2013    | Publication |
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