## ETSI TS 131 124 V14.3.0 (2018-01)



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 14.3.0 Release 14)





# Reference RTS/TSGC-0631124ve30 Keywords LTE,UMTS

#### **ETSI**

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

#### Important notice

The present document can be downloaded from: <u>http://www.etsi.org/standards-search</u>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at <a href="https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx">https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx</a>

If you find errors in the present document, please send your comment to one of the following services: https://portal.etsi.org/People/CommiteeSupportStaff.aspx

#### Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2018. All rights reserved.

**DECT**<sup>™</sup>, **PLUGTESTS**<sup>™</sup>, **UMTS**<sup>™</sup> and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP**<sup>™</sup> and **LTE**<sup>™</sup> are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

oneM2M logo is protected for the benefit of its Members.

GSM® and the GSM logo are trademarks registered and owned by the GSM Association.

## Intellectual Property Rights

#### **Essential patents**

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (https://ipr.etsi.org/).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

#### **Trademarks**

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

#### **Foreword**

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under <a href="http://webapp.etsi.org/key/queryform.asp">http://webapp.etsi.org/key/queryform.asp</a>.

## Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

## Contents

Intellectual l	Property Rights	2
Foreword		2
Modal verbs	terminology	2
•	ences	
	tions and abbreviations	
	bile station definition and configurations	
3.2 Ap 3.2.1	plicability	
	Applicability of the present document	
3.2.2 3.2.3	Applicability to terminal againment	
3.2.3 3.2.4	Applicability to terminal equipment	
3.2.4.1	Format of the table of optional features	
3.2.4.2	Format of the applicability table	
3.2.4.3	Status and notations	
	ble of optional features	
	plicability table	
	nventions for mathematical notations	
3.5.1	Mathematical signs	
4 Test e	quipment	
	• •	
	g methodology in generalsting of optional functions and procedures	
	st interfaces and facilities	
	ormation to be provided by the apparatus supplier	
	· · · · · · · · · · · · · · · · · · ·	
_	rit testing	
7 Measi	rement uncertainty	131
8 Forma	it of tests	131
9 Gener	ic call set up procedures	134
10 - 26Not u	sed	134
27 Testin	g of the UICC/ME interface	13/
	roduction	
	oid	
	IM Application Toolkit	
27.22.1A	General Test purpose	
	Definition of default values for USIM Application Toolkit testing	
	Definition of default values for LTE related USIM Application Toolkit testing	
27.22.2B.1	Definition of E-UTRAN/EPC UICC	
27.22.2B.2	Definition of E-UTRAN parameters	141
27.22.2C De	finition of E-UTRAN/EPC ISIM-UICC	141
27.22.2C.1	Applications on the E-UTRAN/EPC ISIM-UICC	
27.22.2C.2	Default USIM values of E-UTRAN/EPC ISIM-UICC	
27.22.2C.3	Default ISIM values of E-UTRAN/EPC ISIM-UICC	
27.22.2C.3.1	EF <sub>AD</sub> (Administrative Data)	
27.22.2C.3.2	EF <sub>IST</sub> (ISIM Service Table)	
27.22.2C.3.3	EF <sub>IMPI</sub> (IMS private user identity)	
27.22.2C.3.4	EF <sub>DOMAIN</sub> (Home Network Domain Name)	
27.22.2C.3.5	EF <sub>IMPU</sub> (IMS public user identity)	
27.22.2C.3.6	EF <sub>P-CSCF</sub> (P-CSCF ADDRESS)	143

27.22.2C.3.7 H	EF <sub>SMS</sub> (Short Message Service)	
27.22.2C.3.8	EF <sub>SMSR</sub> (Short message status reports)	144
27.22.2C.3.9	EF <sub>SMSP</sub> (Short message service parameters)	144
27.22.2C.3.10	EF <sub>SMSS</sub> (SMS Status)	144
27.22.2C.4	Default values at DF_TELECOM	145
27.22.2C.4.1	EF <sub>PSISMSC</sub> (Public Service Identity of the SM-SC)	145
27.22.1	Initialization of USIM Application Toolkit Enabled UICC by USIM Application Toolkit En	nabled
	ME (Profile Download)	
27.22.1.1	Definition and applicability	
27.22.1.2	Conformance requirement	
27.22.1.3	Test purpose	
27.22.1.4	Method of test	
27.22.1.4.1	Initial conditions	
27.22.1.4.2	Procedure	
27.22.1.5	Test requirement	
	Contents of the TERMINAL PROFILE command.	
27.22.2.1	Definition and applicability	
27.22.2.1	Conformance requirement.	
27.22.2.3	Test purpose	
27.22.2.3	Method of test	
27.22.2.4.1	Initial conditions	
27.22.1.4.2	Procedure	
27.22.2.5	Test requirement	
	Servicing of proactive UICC commands	
27.22.3.1	Definition and applicability	
27.22.3.2	Conformance requirement	
27.22.3.3	Test purpose	
27.22.3.4	Method of test	
27.22.3.4.1	Initial conditions	
27.22.3.4.2	Procedure	
27.22.3.5	Test requirement	
27.22.4	Proactive UICC commands	
27.22.4.1	DISPLAY TEXT	148
27.22.4.1.1	DISPLAY TEXT (Normal)	
27.22.4.1.2	DISPLAY TEXT (Support of "No response from user")	149
27.22.4.1.3	DISPLAY TEXT (Display of extension text)	
27.22.4.1.4	DISPLAY TEXT (Sustained text)	
27.22.4.1.5	DISPLAY TEXT (Display of icons)	
27.22.4.1.6	DISPLAY TEXT (UCS2 display in Cyrillic)	
27.22.4.1.7	DISPLAY TEXT (Variable Time out)	
27.22.4.1.8	DISPLAY TEXT (Support of Text Attribute)	
27.22.4.1.9	DISPLAY TEXT (UCS2 display in Chinese)	
27.22.4.1.10	DISPLAY TEXT (UCS2 display in Katakana)	
27.22.4.2	GET INKEY	
27.22.4.2.1	GET INKEY(normal)	
27.22.4.2.1	GET INKEY (No response from User)	
27.22.4.2.3	GET INKEY (ICS2 display in Cyrillic)	
27.22.4.2.4	GET INKEY (UCS2 entry in Cyrillic)	
27.22.4.2.5	GET INKEY ("Yes/No" Response)	
27.22.4.2.6	GET INKEY (display of Icon)	
27.22.4.2.7	GET INKEY (Help Information)	
27.22.4.2.8	GET INKEY (Variable Time out)	
27.22.4.2.9	GET INKEY (Support of Text Attribute)	
27.22.4.2.10	GET INKEY (UCS2 display in Chinese)	
27.22.4.2.11	GET INKEY (UCS2 entry in Chinese)	
27.22.4.2.12	GET INKEY (UCS2 display in Katakana)	
27.22.4.2.13	GET INKEY (UCS2 entry in Katakana)	
27.22.4.3	GET INPUT	
27.22.4.3.1	GET INPUT (normal)	
27.22.4.3.2	GET INPUT (No response from User)	180
27.22.4.3.3	GET INPUT (UCS2 display in Cyrillic)	181
27.22.4.3.4	GET INPUT (UCS2 entry in Cyrillic)	182

27.22.4.3.5	GET INPUT (default text)	
27.22.4.3.6	GET INPUT (display of Icon)	
27.22.4.3.7	GET INPUT (Help Information)	
27.22.4.3.8	GET INPUT (Support of Text Attribute)	
27.22.4.3.9	GET INPUT (UCS2 display in Chinese)	
27.22.4.3.10	GET INPUT (UCS2 entry in Chinese)	
27.22.4.3.11	GET INPUT (UCS2 display in Katakana)	
27.22.4.3.12	GET INPUT (UCS2 entry in Katakana)	
27.22.4.4	MORE TIME	
27.22.4.4.2	Conformance requirement	
27.22.4.4.3	Test purpose	
27.22.4.4.4	Method of test	
27.22.4.4.5	Test requirement	
27.22.4.5	PLAY TONE	
27.22.4.5.1	PLAY TONE (Normal)	
27.22.4.5.2	PLAY TONE (UCS2 display in Cyrillic)	
27.22.4.5.3	PLAY TONE (display of Icon)	
27.22.4.5.4	PLAY TONE (Support of Text Attribute)	
27.22.4.5.5	PLAY TONE (UCS2 display in Chinese)	
27.22.4.5.6	PLAY TONE (UCS2 display in Katakana)	
27.22.4.6	POLL INTERVAL	
27.22.4.6.1	Definition and applicability	
27.22.4.6.2	Conformance requirement	
27.22.4.6.3	Test purpose	
27.22.4.6.4	Method of test	
27.22.4.7	REFRESH	
27.22.4.7.1	REFRESH (normal)	
27.22.4.7.2	REFRESH (IMSI changing procedure)	
27.22.4.7.3	REFRESH (Steering of roaming)	
27.22.4.7.4	REFRESH (AID)	
27.22.4.7.5	REFRESH (IMSI changing procedure, E-UTRAN)	
27.22.4.8	SET UP MENU and ENVELOPE MENU SELECTION	
27.22.4.8.1	SET UP MENU (normal) and ENVELOPE MENU SELECTION	
27.22.4.8.2	SET UP MENU (help request support) and ENVELOPE MENU SELECTION	
27.22.4.8.3 27.22.4.8.4	SET UP MENU (hext action support) and ENVELOPE MENU SELECTION	
	SET UP MENU (display of icons) and ENVELOPE MENU SELECTIONSET UP MENU (soft keys support) and ENVELOPE MENU SELECTION	
27.22.4.8.5 27.22.4.8.6	SET UP MENU (soft keys support) and ENVELOPE MENU SELECTION  SET UP MENU (support of Text Attribute) and ENVELOPE MENU SELECTION	
27.22.4.8.7	SET UP MENU (Support of Text Attribute) and ENVELOPE MENU SELECTION	
27.22.4.8.8	SET UP MENU (UCS2 display in Cylinic) and ENVELOPE MENU SELECTION	
27.22.4.8.9	SET UP MENU (UCS2 display in Katakana) and ENVELOPE MENU SELECTION	
27.22.4.9	SELECT ITEM	
27.22.4.9.1	SELECT ITEM (mandatory features for ME supporting SELECT ITEM)	275
27.22.4.9.2	SELECT ITEM (next action support)	
27.22.4.9.3	SELECT ITEM (default item support)	
27.22.4.9.4	SELECT ITEM (help request support)	
27.22.4.9.5	SELECT ITEM (icons support)	
27.22.4.9.6	SELECT ITEM (presentation style)	
27.22.4.9.7	SELECT ITEM (soft keys support)	
27.22.4.9.8	SELECT ITEM (Support of "No response from user")	
27.22.4.9.9	SELECT ITEM (Support of Text Attribute)	
27.22.4.9.10	SELECT ITEM (UCS2 display in Cyrillic)	
27.22.4.9.11	SELECT ITEM (UCS2 display in Chinese)	
27.22.4.9.12	SELECT ITEM (UCS2 display in Katakana)	
27.22.4.10	SEND SHORT MESSAGE	
27.22.4.10.1	SEND SHORT MESSAGE (normal)	
27.22.4.10.2	SEND SHORT MESSAGE (UCS2 display in Cyrillic)	291
27.22.4.10.3	SEND SHORT MESSAGE (icon support)	297
27.22.4.10.4	SEND SHORT MESSAGE (Support of Text Attribute)	
27.22.4.10.5	SEND SHORT MESSAGE (UCS2 display in Chinese)	
27.22.4.10.6	SEND SHORT MESSAGE (UCS2 display in Katakana)	
27.22.4.10.7	SEND SHORT MESSAGE (IMS)	352

27.22.4.10.8	SEND SHORT MESSAGE (over SGs in E-UTRAN)	364
27.22.4.11	SEND SS	
27.22.4.11.1	SEND SS (normal)	
27.22.4.11.2	SEND SS (Icon support)	
27.22.4.11.3	SEND SS (UCS2 display in Cyrillic)	
27.22.4.11.4	SEND SS (support of Text Attribute)	
27.22.4.11.5	SEND SS (UCS2 display in Chinese)	
27.22.4.11.6	SEND SS (UCS2 display in Katakana)	
27.22.4.12	SEND USSD	
27.22.4.12.1	SEND USSD (normal)	
27.22.4.12.2	SEND USSD (Icon support)	
27.22.4.12.3	SEND USSD (UCS2 display in Cyrillic)	
27.22.4.12.4	SEND USSD (support of Text Attribute)	
27.22.4.12.5	SEND USSD (UCS2 display in Chinese)	
27.22.4.12.6	SEND USSD (UCS2 display in Katakana)	
27.22.4.13	SET UP CALL	
27.22.4.13.1	SET UP CALL (normal)	
27.22.4.13.2	SET UP CALL (second alpha identifier)	
27.22.4.13.3	SET UP CALL (display of icons)	
27.22.4.13.4	SET UP CALL (support of Text Attribute)	
27.22.4.13.5	SET UP CALL (UCS2 Display in <i>Cyrillic</i> )	
27.22.4.13.6	SET UP CALL (UCS2 Display in Chinese)	
27.22.4.13.7	SET UP CALL (UCS2 Display in Katakana)	
27.22.4.14	POLLING OFF	
27.22.4.14.1	Definition and applicability	
27.22.4.14.2	Conformance requirement	
27.22.4.14.3	Test purpose	
27.22.4.14.4	Method of test	
27.22.4.14.5	Test requirement	
27.22.4.15	PROVIDE LOCAL INFORMATION	
27.22.4.15.1	Definition and applicability	
27.22.4.15.2	Conformance requirement	
27.22.4.15.3	Test purpose	
27.22.4.15.4	Method of tests	
27.22.4.15.5	Test requirement	
27.22.4.16	SET UP EVENT LIST	
27.22.4.16.1	SET UP EVENT LIST (normal)	
27.22.4.17	PERFORM CARD APDU	
27.22.4.17.1	PERFORM CARD APDU (normal)	
27.22.4.17.2	PERFORM CARD APDU (detachable card reader)	586
27.22.4.18	POWER OFF CARD	
27.22.4.18.1	POWER OFF CARD (normal)	
27.22.4.18.2	POWER OFF CARD (detachable card reader)	
27.22.4.19	POWER ON CARD	
27.22.4.19.1	POWER ON CARD (normal)	
27.22.4.19.2	POWER ON CARD (detachable card reader)	
27.22.4.20	GET READER STATUS	
27.22.4.20.1	GET READER STATUS (normal)	590
27.22.4.20.2	GET CARD READER STATUS (detachable card reader)	
27.22.4.21	TIMER MANAGEMENT and ENVELOPE TIMER EXPIRATION	
27.22.4.21.1	TIMER MANAGEMENT (normal)	
27.22.4.21.2	ENVELOPE TIMER EXPIRATION (normal)	593
27.22.4.22	SET UP IDLE MODE TEXT	
27.22.4.22.1	SET UP IDLE MODE TEXT (normal)	
27.22.4.22.2	SET UP IDLE MODE TEXT (Icon support)	
27.22.4.22.3	SET UP IDLE MODE TEXT (UCS2 support)	
27.22.4.22.4	SET UP IDLE MODE TEXT (support of Text Attribute)	
27.22.4.22.5	SET UP IDLE MODE TEXT (UCS2 display in Chinese)	
27.22.4.22.6	SET UP IDLE MODE TEXT (UCS2 display in Katakana)	
27.22.4.23	RUN AT COMMAND.	
27.22.4.23.1	RUN AT COMMAND (normal)	
27.22.4.23.2	RUN AT COMMAND (Icon support)	

27.22.4.23.3	RUN AT COMMAND (support of Text Attribute)	618
27.22.4.23.4	RUN AT COMMAND (UCS2 display in Cyrillic)	
27.22.4.23.5	RUN AT COMMAND (UCS2 display in Chinese)	
27.22.4.23.6	RUN AT COMMAND (UCS2 display in Katakana)	653
27.22.4.24	SEND DTMF	654
27.22.4.24.1	SEND DTMF (Normal)	654
27.22.4.24.2	SEND DTMF (Display of icons)	659
27.22.4.24.3	SEND DTMF (UCS2 display in Cyrillic)	664
27.22.4.24.4	SEND DTMF (support of Text Attribute)	666
27.22.4.24.5	SEND DTMF (UCS2 Display in Chinese)	714
27.22.4.24.6	SEND DTMF (UCS2 Display in Katakana)	716
27.22.4.25	LANGUAGE NOTIFICATION	717
27.22.4.25.1	Definition and applicability	717
27.22.4.25.2	Conformance Requirement	717
27.22.4.25.3	Test purpose	717
27.22.4.25.4	Method of Test	718
27.22.4.25.5	Test requirement	718
27.22.4.26	LAUNCH BROWSER	
27.22.4.26.1	LAUNCH BROWSER (No session already launched)	
27.22.4.26.2	LAUNCH BROWSER (Interaction with current session)	
27.22.4.26.3	LAUNCH BROWSER (UCS2 display in Cyrillic)	
27.22.4.26.4	LAUNCH BROWSER (icons support)	
27.22.4.26.5	LAUNCH BROWSER (support of Text Attribute)	
27.22.4.26.6	LAUNCH BROWSER (UCS2 Display in Chinese)	779
27.22.4.26.7	LAUNCH BROWSER (UCS2 Display in Katakana)	
27.22.4.27	OPEN CHANNEL	783
27.22.4.27.1	Void	
27.22.4.27.2	Open Channel (related to GPRS)	
27.22.4.27.3	Open Channel (default bearer)	
27.22.4.27.3.1	- I	
27.22.4.27.3.2	- r · · · · · · · · · · · · · · · · · ·	
27.22.4.27.4	Open Channel (Local Bearer)	
27.22.4.27.5	Open Channel (GPRS, support of Text Attribute)	
27.22.4.27.6	Open Channel (related to E-UTRAN)	
27.22.4.27.7	Open Channel (UICC Access to IMS)	
27.22.4.28	CLOSE CHANNEL	
27.22.4.28.1	CLOSE CHANNEL(normal)	
27.22.4.28.2	CLOSE CHANNEL (support of Text Attribute)	
27.22.4.28.3	CLOSE CHANNEL(E-UTRAN/EPC)	
27.22.4.29	RECEIVE DATA	
27.22.4.29.1	RECEIVE DATA (NORMAL)	
27.22.4.29.1.5		
27.22.4.29.2	RECEIVE DATA (support of Text Attribute)	
27.22.4.30	SEND DATA	
27.22.4.30.1	SEND DATA (compart of Text Attribute)	
27.22.4.30.2	SEND DATA (F. LITRAN)	
27.22.4.30.3	SEND DATA (E-UTRAN)	
27.22.4.31	GET CHANNEL STATUS	
27.22.4.31.1	Definition and applicability	
27.22.4.31.2	Conformance requirements	
27.22.4.31.3	Test purpose	
27.22.4.31.4 27.22.4.31.5	Method of test	
	Test requirement	
27.22.5 27.22.5.1	SMS-PP Data Download	
27.22.5.1	Definition and applicability	
27.22.5.1.1	Conformance requirement	
27.22.5.1.2	Test purpose	
27.22.5.1.3	Method of Test	
27.22.5.1.4	Test requirement.	
27.22.5.1.3	Cell Broadcast Data Download	
27.22.3.2	Definition and applicability	1065

27.22.5.2.2	Conformance requirement	1065
27.22.5.2.3	Test purpose	
27.22.5.2.4	Method of Test	
27.22.5.2.5	Test requirement	
27.22.5.3	SMS-PP Data Download over IMS	
27.22.5.3.1	Definition and applicability	
27.22.5.3.2	Conformance requirement	
27.22.5.3.3	Test purpose	
27.22.5.3.4	Method of Test	
27.22.5.3.5	Test requirement	
27.22.5.4	SMS-PP Data Download over SGs in E-UTRAN	
27.22.5.4.1	Definition and applicability	
27.22.5.4.1	Conformance requirement	
27.22.5.4.2	Test purpose	
27.22.5.4.3	Method of Test	
27.22.5.4.4	Test requirement	
27.22.5.4.5	CALL CONTROL BY USIM	
27.22.6.1	Procedure for Mobile Originated calls	
27.22.6.1		
	Definition and applicability	
27.22.6.1.2	Conformance requirement	
27.22.6.1.3 27.22.6.1.4	Test purpose	
27.22.6.1.5	Test requirement (CS) Samilar	
27.22.6.2	Procedure for Supplementary (SS) Services	
27.22.6.2.1	Definition and applicability	
27.22.6.2.2	Conformance requirement	
27.22.6.2.3	Test purpose	
27.22.6.2.4	Method of tests	
27.22.6.2.5	Test requirement	
27.22.6.3	Interaction with Fixed Dialling Number (FDN)	
27.22.6.3.1	Definition and applicability	
27.22.6.3.2	Conformance requirement	
27.22.6.3.3	Test purpose	
27.22.6.3.4	Method of tests	
27.22.6.3.5	Test requirement	
27.22.6.4	Support of Barred Dialling Number (BDN) service	
27.22.6.4.1	Definition and applicability	
27.22.6.4.2	Conformance requirement	
27.22.6.4.3	Test purpose	
27.22.6.4.4	Method of tests	
27.22.6.4.5	Test requirement	
27.22.6.5	Barred Dialling Number (BDN) service handling for terminals not supporting BDN	
27.22.6.5.1	Definition and applicability	
27.22.6.5.2	Conformance requirement	
27.22.6.5.3	Test purpose	
27.22.6.5.4	Method of tests	
27.22.7	EVENT DOWNLOAD	
27.22.7.1	MT Call Event	
27.22.7.1.1	MT Call Event (normal)	
27.22.7.2	Call Connected Event	
27.22.7.2.1	Call Connected Event (MT and MO call)	
27.22.7.2.2	Call Connected Event (ME supporting SET UP CALL)	
27.22.7.3	Call Disconnected Event	
27.22.7.3.1	Call Disconnected Event	
27.22.7.4	Location Status Event	
27.22.7.4.1	Location Status Event (normal)	
27.22.7.5	User Activity Event	
27.22.7.5.1	User Activity Event (normal)	1153
27.22.7.6	Idle screen available event	
27.22.7.6.1	Idle Screen Available (normal)	
27.22.7.7	Card reader status event	
27 22 7 7 1	Card Paadar Status (normal)	1155

History			125/	
	nformative):	Change history		
•	normative):	Details of terminal profile support		
	normative):	Details of Test-SIM (TestSIM)		
27.22.11.1		e for Mobile Originated calls		
27.22.11		FROL on PDP Context Activation		
27.22.10.1.4	1 1	f tests		
27.22.10.1.2		ose		
27.22.10.1.1		ance requirement		
27.22.10.1		r Mobile Originated calls n and applicability		
27.22.10 27.22.10.1				
27.22.9.5		nentDL on EPS PDN Connection		
27.22.9.4.2		oont		
27.22.9.4.1		nditions		
27.22.9.4		sts		
27.22.9.3	1 1			
27.22.9.2		e requirement		
27.22.9.1		d applicability		
27.22.9		mand number		
27.22.8.5		nent		
27.22.8.4.2				
27.22.8.4.1				
27.22.8.4	Method of tests			
27.22.8.3	Test purpose			
27.22.8.2		e requirement		
27.22.8.1		d applicability		
27.22.8		ESSAGE CONTROL BY USIM		
27.22.7.20.1	Incoming	IMS data (normal)	1189	
27.22.7.20		S data event		
27.22.7.19	IMS registrat	ion event	1189	
27.22.7.18.1		Selection (normal)		
27.22.7.18		lection event		
27.22.7.17	_	ection Event		
27.22.7.16		tus event		
27.22.7.15.4		f test		
27.22.7.15.3		ose		
27.22.7.15.2		ance requirements		
27.22.7.15.1		and applicability		
27.22.7.15		ch mode change event		
27.22.7.13		ction event		
27.22.7.12		meter changed event		
27.22.7.11.4		nology Change event		
27.22.7.11.3		f test		
27.22.7.11.2		ose		
27.22.7.11.1		and applicability		
27.22.7.11		us event		
27.22.7.10.4 27.22.7.11		us event		
27.22.7.10.3 27.22.7.10.4		osef test		
27.22.7.10.2 27.22.7.10.3		ance requirements		
27.22.7.10.1		n and applicability		
27.22.7.10		e event		
27.22.7.9.1		rermination (normal)		
27.22.7.9	Browser termination event			
27.22.7.8.1	Language selection event (normal)			
27.22.7.8	Language selection event			
27.22.7.7.2		der Status(detachable card reader)		

## 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.

## 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 LTE-Advanced, LTE, 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 any later Release.

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 ETSIs, 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 ETSITS 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.

In the present document, unless explicitly stated otherwise, for Rel-13 onwards the term E-UTRAN implicitly refers to the E-UTRAN in WB-S1 mode. E-UTRAN in NB-S1 mode is always explicitly referred to as NB-IoT.

#### 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] If the device under test is a
  - R99 ME: ETSI TS 102 221 v3.18.0: "UICC-Terminal interface; Physical and logical characteristics",
  - Rel-4 ME: ETSI TS 102 221 v4.16.0: "UICC-Terminal interface; Physical and logical characteristics",
  - Rel-5 ME: ETSI TS 102 221 v5.10.0: "UICC-Terminal interface; Physical and logical characteristics",
  - Rel-6 ME: ETSI TS 102 221 v6.15.0: "UICC-Terminal interface; Physical and logical characteristics",
  - Rel-7 ME: ETSI TS 102 221 v7.17.0: "UICC-Terminal interface; Physical and logical characteristics",
  - Rel-8 ME: ETSI TS 102 221 v8.5.0: "UICC-Terminal interface; Physical and logical characteristics",
  - Rel-9 ME: ETSI TS 102 221 v9.2.0: "UICC-Terminal interface; Physical and logical characteristics"",
  - Rel-10 ME: ETSI TS 102 221 v10.0.0: "UICC-Terminal interface; Physical and logical characteristics",
  - Rel-11 ME: ETSI TS 102 221 v11.1.0: "UICC-Terminal interface; Physical and logical characteristics",

•	Rel-12 ME: ETSI TS 102 221 v12.1.0: "UICC-Terminal interface; Physical
	and logical characteristics".

- Rel-13 ME: ETSI TS 102 221 v12.1.0: "UICC-Terminal interface; Physical and logical characteristics".
- Rel-14 ME: ETSI TS 102 221 v14.0.0: "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 (ATSs)".
- [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".

#### 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 "System Simulator" when accessing a GERAN, the term "E-USS" refers to the "Evolved Universal System Simulator" when accessing an E-UTRAN in WB-S1 mode and the term "NB-SS" refers to the "NB System Simulator" when accessing an E-UTRAN in NB-S1 mode.

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, with the exception of the functions:

- "Alpha identifier in REFRESH command supported by terminal";
- "Event Language Selection";
- "Proactive UICC: PROVIDE LOCAL INFORMATION (language)"; and
- "Proactive UICC: LANGUAGE NOTIFICATION".

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	0		O_Ucs2_Entry
4	Extended Text String	C002		O_Ext_Str
5	Help information	0		O_Help
6	Icons	0		O_lcons
7	Class A: Dual Slot	0		O_Dual_Slot
8	Detachable reader	0		O_Detach_Rdr
9	Class B: RUN AT	0		O_Run_At
10	Class C: LAUNCH BROWSER	0		O_LB
11	Class D: Soft keys	0		O_Soft_key
12	Class E: B.I.P related to CSD	0		O_BIP_CSD
13	Screen sizing parameters	0		O_Scr_Siz
14	Screen Resizing	0		O_Scr_Resiz
15	UCS2 coding scheme for Display	0		O_Ucs2_Disp
16	Mobile supporting GPRS	0		O_GPRS
17	Mobile supporting UDP	0		O_UDP
18	Mobile supporting TCP	0		O_TCP
19	Redial in Set Up Call	0		O_Redial
20	Mobile decision to respond with "No response from user" in finite time	0		O_D_NoResp
21	Class E: B.I.P related to GPRS	0		O_BIP_GPRS
22	Mobile supporting Called Party Subaddress	0		O_CP_Subaddr
23	Immediate response	0		O_Imm_Resp
24	Variable Timeout	0		O_Duration
25	void			
26	Class F: B.I.P related to local bearer	0		O_BIP_Local
27	BlueTooth Support	0		O_BT
28	IrDA Support	0		O_IrDA
29	RS232 Support	0		O_RS232
30	USB Support	0		O_USB
31	WML Browser Support	0		O_WML
32	XHTML Browser Support	0		O_XHTML
33	HTML Browser Support	0		O_HTML

34	CHTML Browser Support	0	O_CHTML
35	Class G: Battery Data	0	O_Batt
36	Class H: Multimedia Call Support	0	O_Xmedia_Call
37	Class I: Frame support	0	O_Frames
38	Class J: Multimedia Messaging Support	0	O_MMS
39	ME requesting for user confirmation before sending the Envelope Call Control command	0	O_UC_Before_EnvCC
40	ME requesting for user confirmation after sending the Envelope Call Control command	0	O_UC_After_EnvCC
41	UCS2 in Cyrillic	0	O_UCS2_Cyrillic
42	UCS2 in Chinese	0	O_UCS2_Chinese
43	UCS2 in Katakana	0	O_UCS2_Katakana
44	Mobile supporting Barred Dialling Numbers	0	O_BDN
45	Mobile supporting Fixed dialling numbers	0	O_FDN
46	Mobile supporting "+CIMI" in combination with Run AT Command	0	O_+CIMI
47	Mobile supporting "+CGMI" in combination with Run AT Command	0	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	0	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	0	O_BUFFER_SIZE
50	Text attributes – Alignment left	0	O_TAT_AL
51	Text attributes – Alignment center	0	O_TAT_AC
52	Text attributes – Alignment right	0	O_TAT_AR
53	Text attributes – Font size normal	0	O_TAT_FSN
54	Text attributes – Font size large	0	O_TAT_FSL
55	Text attributes – Font size small	0	O_TAT_FSS
56	Text attributes – Style normal	0	O_TAT_SN
57	Text attributes – Style bold	0	O_TAT_SB
58	Text attributes – Style italic	0	O_TAT_SI
59	Text attributes – Style underlined	0	O_TAT_SU
60	Text attributes – Style strikethrough	0	O_TAT_SS

61	Text attributes – Style text foreground colour	0	O_TAT_STFC
62	Text attributes – Style text background colour	0	O_TAT_STFB
63	Terminal supports Long ForwardToNumber	0	O_longFTN

64	Mobile supporting GERAN	0	O_GERAN
65	Support of global phonebook	C001	O_Global_PB
66	HSDPA Support	0	O_HSDPA
67	UTRAN PS with extended	0	O_UTRAN_PS_Ext_Param
	parameters Support		
68	Terminal executes User	0	O_User_Confirm_Before_PDP_Context_R
	confirmation phase before sending		equest
- 00	PDP context activation request		0.000.1101.0
69	ME supports Call Hold	0	O_Serv_SS_HOLD
70	Supplementary Service Class E: B.I.P. related to I-WLAN		O LW/LAN
70 71	Class K: Terminal Applications	0	O_I-WLAN O_Terminal_Applications
''	support	O	
72	Class E: Terminal supports TCP,	0	O_TCP_UICC_ServerMode
'-	UICC in Server Mode	Ū	
73	Class E: Terminal supports TCP,	0	O_TCP_Terminal_ServerMode
	Terminal in Server Mode		
74	Class E: Terminal supports UDP,	0	O_UDP_Terminal_ServerMode
	Terminal in Server Mode		
75	Void		
76	Void		
77	Void		
78	Terminal supports at least one	0	O_AddInfo_SS
70	supplementary service.		0.0.0511
79	Terminal supports "Call	0	O_ Serv_SS_CFU
80	Forwarding Unconditional" Terminal supports "Calling Line	0	O_Serv_SS_CLIR
80	Identification Restriction"	O	O_Selv_SS_CLIR
81	Class N:Terminal supports	0	O_Geo_Location_Discovery
01	"Geographical location discovery"	O	O_Geo_Location_biscovery
82	Terminal supports melody and	0	O_M_T_Tones
02	theme tones	Ū	
83	Terminal supports Toolkit-initiated	0	O_Toolkit_GBA
	GBA		
84	Terminal supports display	C002	O_ No_Type_ND
	capability		
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	C002	O_No_Type_NL
00	languages		O 1100D D-1- DI
89	Class P:USSD Data Download	0	O_USSD_Data_DL
90	and application mode  Terminal displays icons as defined	0	O_lcon Rec1_Disp_Text
90	in record 1 of EF(IMG) for Display	O	O_icon Rec1_bisp_1ext
	Text command		
91	Terminal displays icons as defined	0	O_lcon Rec2_Disp_Text
	in record 2 of EF(IMG) for Display	-	
	Text command		
92	Terminal displays icons as defined	0	O_Icon Rec5_Disp_Text
1	in record 5 of EF(IMG) for Display		
	Text command		
93	Terminal displays icons as defined	0	O_lcon Rec1_Get_Inkey
1	in record 1 of EF(IMG) for Get Inkey command		
94	Terminal displays icons as defined	0	O_lcon Rec2_Get_Inkey
3-4	in record 2 of EF(IMG) for Get	J	O_10011 1.002_00t_1111.00y
1	Inkey command		
95	Terminal displays icons as defined	0	O_lcon Rec5_Get_Inkey
	in record 5 of EF(IMG) for Get		,
	Inkey command		
96	Terminal displays icons as defined	0	O_lcon Rec1_Get_Input
1	in record 1 of EF(IMG) for Get		
	Input command		

97	Terminal displays icons as defined in record 2 of EF(IMG) for Get Input command	0	O_lcon Rec2_Get_Input
98	Terminal displays icons as defined in record 5 of EF(IMG) for Get Input command	0	O_lcon Rec5_Get_Input
99	Terminal displays icons as defined in record 1 of EF(IMG) for Play Tone command	0	O_Icon Rec1_Play_Tone
100	Terminal displays icons as defined in record 2 of EF(IMG) for Play Tone command	0	O_Icon Rec2_Play_Tone
101	Terminal displays icons as defined in record 5 of EF(IMG) for Play Tone command	0	O_lcon Rec5_Play_Tone
102	Terminal displays icons as defined in record 1 of EF(IMG) for Set Up Menu command	0	O_Icon_ Rec1_Set_Up_Menu
103	Terminal displays icons as defined in record 2 of EF(IMG) for Set Up Menu command	0	O_Icon_ Rec2_Set_Up_Menu
104	Terminal displays icons as defined in record 5 of EF(IMG) for Set Up Menu command	0	O_lcon_ Rec5_Set_Up_Menu
105	Terminal displays icons as defined in record 1 of EF(IMG) for Select Item command	0	O_lcon_ Rec1_Select_Item
106	Terminal displays icons as defined in record 2 of EF(IMG) for Select Item command	0	O_lcon_ Rec2_Select_Item
107	Terminal displays icons as defined in record 5 of EF(IMG) for Select Item command	0	O_lcon_ Rec5_Select_Item
108	Terminal displays icons as defined in record 1 of EF(IMG) for Send Short Message command	0	O_lcon_ Rec1_Send_SM
109	Terminal displays icons as defined in record 2 of EF(IMG) for Send Short Message command	0	O_lcon_ Rec2_Send_SM
110	Terminal displays icons as defined in record 5 of EF(IMG) for Send Short Message command	0	O_lcon_ Rec5_Send_SM
111	Terminal displays icons as defined in record 1 of EF(IMG) for Send SS command	0	O_lcon_ Rec1_Send_SS
112	Terminal displays icons as defined in record 2 of EF(IMG) for Send SS command	0	O_lcon_ Rec2_Send_SS
113	Terminal displays icons as defined in record 5 of EF(IMG) for Send SS command	0	O_lcon_ Rec5_Send_SS
114	Terminal displays icons as defined in record 1 of EF(IMG) for Send USSD command	0	O_lcon_ Rec1_Send_USSD
115	Terminal displays icons as defined in record 2 of EF(IMG) for Send USSD command	0	O_lcon_ Rec2_Send_USSD
116	Terminal displays icons as defined in record 5 of EF(IMG) for Send USSD command	0	O_lcon_ Rec5_Send_USSD
117	Terminal displays icons as defined in record 1 of EF(IMG) for Set Up Call command	0	O_lcon_ Rec1_Set_Up_Call
118	Terminal displays icons as defined in record 2 of EF(IMG) for Set Up Call command	0	O_lcon_ Rec2_Set_Up_Call

119	Terminal displays icons as defined in record 5 of EF(IMG) for Set Up Call command	0	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	0	O_lcon_ 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	0	O_lcon_ 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	0	O_lcon_ Rec5_Set_Up_Idle_Mode_Text
123	Terminal displays icons as defined in record 1 of EF(IMG) for Run AT Command command	0	O_lcon_ Rec1_Run_AT_Cmd
124	Terminal displays icons as defined in record 2 of EF(IMG) for Run AT Command command	0	O_lcon_ Rec2_Run_AT_Cmd
125	Terminal displays icons as defined in record 5 of EF(IMG) for Run AT Command command	0	O_lcon_ Rec5_Run_AT_Cmd
126	Terminal displays icons as defined in record 1 of EF(IMG) for Send DTMF command	0	O_lcon_ Rec1_Send_DTMF
127	Terminal displays icons as defined in record 2 of EF(IMG) for Send DTMF command	0	O_lcon_ Rec2_Send_DTMF
128	Terminal displays icons as defined in record 5 of EF(IMG) for Send DTMF command	0	O_lcon_ Rec5_Send_DTMF
129	Terminal displays icons as defined in record 1 of EF(IMG) for Launch Browser command	0	O_lcon_ Rec1_Launch_Browser
130	Terminal displays icons as defined in record 2 of EF(IMG) for Launch Browser command	0	O_lcon_ Rec2_Launch_Browser
131	Terminal displays icons as defined in record 5 of EF(IMG) for Launch Browser command	0	O_lcon_ Rec5_Launch_Browser
132	Class E: Terminal does support eFDD	0	pc_BIP_eFDD
133	Class E: Terminal does support eTDD	0	pc_BIP_eTDD
134	Terminal supports UTRAN	0	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	0	O_Event_CSG_Cell_Selection
137	CLASS Q: Terminal supports CSG Cell Discovery	0	O_CSG_Cell_Discovery
138	Terminal supports selection of default item in Select Item	0	O_Select_Item_Default_Item
139	Terminal supports eFDD	0	pc_eFDD
140	Terminal supports eTDD	0	pc_eTDD
141	Terminal supports SM-over-IP-receiver	0	pc_SM-over-IP-receiver
142	Terminal supports MO SMS over IMS	0	pc_MO_SM-over-IMS
143	Class K: Terminal supports Direct Communication Channel	0	O_Direct_Com_Channel
144	Terminal supports Communication Control for IMS	0	O_CC_IMS
145	Class S: Terminal supports CAT over modem interface	0	O_CAT_Modem_Interface
146	Class E and T: Event Incoming IMS Data	0	O_Event_Incoming_IMS_Data

147	Class E and T: Event IMS	0	O_Event_IMS_Registration
148	Registration Class E and T: UICC Access to	0	O_UICC_ACCESS_IMS
4.40	IMS support		
149	Terminal supports SMS Cell Broadcast Data Download	0	O_SMS-CB_Data_Download
150	Terminal supports IMS	0	O_IMS
151	Terminal operating in PS mode	Ö	O_PS_OPMODE
152	Terminal supports Short Message Service (SMS) MT over SGs	0	O_SMS_SGs_MT
153	Terminal supports Short Message Service (SMS) MO over SGs	0	O_SMS_SGs_MO
154	Terminal sends RP-ACK for '62XX' and '63XX' for SMS-PP download	C004	O_RP-ACK_for_SMS-PP_ error
155	Terminal supports browser with multiple sessions/tabs	0	O_Browser_tabs
156	Terminal supports Short Message Service (SMS) MT over CS	0	pc_SMS_CS_MT
157	Terminal supports Short Message	0	pc_SMS_CS_MO
450	Service (SMS) MO over CS	0	CMC DC MT
158	Terminal supports Short Message Service (SMS) MT over PS	0	pc_SMS_PS_MT
159	Terminal supports Short Message Service (SMS) MO over PS	0	pc_SMS_PS_MO
160	Terminal rejects Launch Browser with Default URL	C005	O_Rej_Launch_Browser_with DefURL
161	Terminal supports Event Language Selection	0	O_Lang_Select
162	Terminal supports Provide Local Information (Language)	0	O_Provide_Local_LS
163	Terminal supports Language Notification	0	O_Lang_Notif
164	Terminal supports Alpha Identifier in REFRESH command	0	O_Refresh_Alphaldentifier
165	ProSe usage information reporting	0	O_ProSE
166	Event: WLAN Access status	0	O_WLAN_Access_Status
167	Class E: WLAN bearer support	0	O_WLAN_Bearer
168	Terminal supports to a I-WLAN or a WLAN	0	O_I-WLAN_OR_WLAN
169	Terminal supports Media Type "Voice" for SET UP CALL and Call Control by USIM	0	O_Media_Type_Voice
170	Terminal supports Media Type "Video" for SET UP CALL and Call	0	O_Media_Type_Video
171	Control by USIM Terminal supports sending location	C006	O_LS_and_ATC_events
	status and access technology that is already available		
172	Terminal performs USIM	0	O_USIM_Deact_during_Refresh
	deactivation during 3G Session Reset REFRESH		
173	Terminal does support NB-IoT	0	pc_NB
174	Terminal supports EMM- REGISTERED with PDN	Ö	pc_AttachWithPDN
175	Void	0	pc_BIP_NB
	Void		pc_Multiple_PDN
176 177	Support for SM-over-IP without MSISDN	0	O_SM-over-IP_without_MSISDN
178	Class ae: Originate voice call with URI	0	O_Voice_Call_with_URI
179	Class E: Terminal does support NB-IoT	0	pc_BIP_NB
180	Support for multiple PDN connections	0	pc_Multiple_PDN
C001 If	terminal is implemented according to	Rol-6 or	ater then M. else O
<b>3001 II</b>	tommar to implemented according to	1101 0 01	ator thorning 0100 C

related	If feature is implemented according to Rel-8 or later then O, else M. It is possible to implement the d features according to Rel-8 or later even if the generic toolkit implementation is according to a e earlier then 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
C004	If feature is implemented according to Rel-11 or later then M, else N/A
C005	If feature is implemented according to Rel-12 or later then O, else N/A
C006	If feature is implemented according to Rel-13 or later then M, else O
NOTE	: Items 161, 162, 163 and 164 were made optional as a consequence of the approval of CR 0429 against TS 31.111 and CR 0419 against TS 31.124

## 3.4 Applicability table

NOTE: It is possible that the applicability of some tests indicated in table B.1 does not match with the value in the Release column, due to late definition of the test sequences. Tests should be performed without considering the Release column, but only based on the conditions indicated for each release.

Table B.1: Applicability of tests

ETSI TS 131 124 V14.3.0 (2018-01)

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
1	PROFILE DOWNLO AD 27.22	R99	1	М	М	М	М	М	М	М	М	М	М	М	М	E.1/1	No		
2	Contents of the TERMINA L PROFILE comman d 27.22.2	R99		M	М	M	M	М	М	M	М	M	М	M	М	E.1/1	No		
3	Servicing of Proactive UICC Comman ds 27.22	R99		M	M	M	М	M	М	M	M	M	M	M	М		No		
4	DISPLAY TEXT 27.22 .4.1																		
	Unpacked	R99	1.1	C177	E.1/17 AND E.1/110	No													
	Screen busy	R99	1.2	C177	E.1/17 AND E.1/110	No													
	high priority	R99	1.3	C177	E.1/17 AND E.1/110	No													
	Packed	R99	1.4	C177	E.1/17 AND E.1/110	No													
	clear after delay	R99	1.5	C177	E.1/17 AND E.1/110	No													
	long text up to 160 bytes	R99	1.6	C177	E.1/17 AND E.1/110	No													
	Backward s move in USIM session	R99	1.7	C177 AND C178	E.1/17 AND E.1/110 AND E.1/111	No													
	Session terminate d by user	R99	1.8	C177 AND C178	E.1/17 AND E.1/110 AND E.1/111	No													

De	escripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Addit onal test case execu tion paran eter
no un	ommand ot nderstoo by ME	R99	1.9	C177	E.1/17 AND E.1/110	No		eter											
	sponse om user	R99	2.1	C120 AND C177 AND C178	E.1/17 AND E.1/110 AND E.1/111	No													
Ex Te	ctension ext	R99	3.1	C177	E.1/17 AND E.1/16 AND E.1/110	No													
su tex	istained xt	R99	4.1, 4.2	C177	E.1/17 AND E.1/65 AND E.1/110	No													
su	istained xt	R99	4.3	C177 AND C178	E.1/17 AND E.1/65 AND E.1/110 AND E.1/111	No													
su te	istained xt	R99	4.4	C177 AND C180	C177 AND C180	C177 AND C180	C177 AND C180	C177 AND C180	C177 AND C180 AND C183	E.1/17 AND E.1/65 AND E.1/110	UMTS System Simulator or System Simulator only								
	ons – asic icon	R99	5.1, 5.3	C108 AND C177	E.1/17 AND E.1/110	No													
	ons – olour on	R99	5.2	C171 AND C177	E.1/17 AND E.1/110	No													
U( dis	CS2 splay in yrillic	R99	6.1	C118 AND C177	E.1/17 AND E.1/15 AND E.1/110	No													
	ariable meout	Rel-4	7.1		C126 AND C177 AND C178	E.1/17 AND E.1/137 AND E.1/110 AND E.1/111	No												

	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additional test case execution parameter
at le	ext ttribute – eft lignment	Rel-5	8.1			C153 AND C177	E.1/17 AND E.1/124 AND E.1/217 AND E.1/110	No											
at ce al	ext ttribute – enter lignment	Rel-5	8.2			C154 AND C177	E.1/17 AND E.1/124 AND E.1/218 AND E.1/110	No											
at riç	ext ttribute – ght lignment	Rel-5	8.3			C155 AND C177	E.1/17 AND E.1/124 AND E.1/219 AND E.1/110	No											
at la	ext ttribute – arge font ize	Rel-5	8.4			C157 AND C156 AND C177	E.1/17 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	No											
at sr	ext ttribute – mall font ize	Rel-5	8.5			C158 AND C156 AND C177	E.1/17 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	No											
at	ext ttribute – old on	Rel-5	8.6			C160 AND C159 AND C177	E.1/17 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	No											

De	escripti on	Re- lease	Test sequence (s)	Rei 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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Add ona tes cas exec tior para ete
	ext tribute – Ilic on	Rel-5	8.7			C161 AND C159 AND C177	E.1/17 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	No											
	tribute – nderlined	Rel-5	8.8			C162 AND C159 AND C177	E.1/17 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	No											
stri	ext tribute – rikethrou n on	Rel-5	8.9			C163 AND C159 AND C177	E.1/17 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	No											
for d a bad d c	tribute – regroun and ackgroun colours	Rel-5	8.10			C164 AND C165 AND C177	E.1/17 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	No											
dis	CS2 splay in ninese	R99	9.1			C143 AND C177	E.1/17 AND E.1/15 AND E.1/110	No											
dis	CS2 splay in atakana	R99	10.1			C145 AND C177	E.1/17 AND E.1/15 AND E.1/110	No											
Fra	ames	Rel-6	TBD													E.1/17 AND E.1/177 AND E.1/178 AND E.1/110	TBD		

32

em	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
5	GET INKEY 27.22 .4.2																		eter
	prompt unpacked	R99	1.1	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No													
	prompt packed	R99	1.2	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No													
	Backward s move in UICC session	R99	1.3	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No													
	Session terminate d by user	R99	1.4	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No													
	SMS alphabet	R99	1.5	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No													
	Long text up to 160 bytes	R99	1.6	C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No													
	no response from user	R99	2.1	C120 AND C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No													
	UCS2 display in Cyrillic	R99	3.1	C118 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No													

De	escripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
dis Lo up ch	CS2 splay, ong text o to 70 nars in yrillic	R99	3.2	C118 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No													
en	CS2 htry in yrillic	R99	4.1	C105 AND C177 AND C178	E.1/18 AND E.1/14 AND E.1/110 AND E.1/111	No													
	'es/No" sponse	R99	5.1	C177 AND C178	E.1/18 AND E.1/60 AND E.1/110 AND E.1/111	No													
	ons – asic icon	R99	6.1, 6.2	C108 AND C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No													
	ons – blour on	R99	6.3, 6.4	C171 AND C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No													
	elp formatio	R99	7.1	C107 AND C177 AND C178	E.1/18 AND E.1/110 AND E.1/111	No													
	ariable meout	Rel-4	8.1		C126 AND C177 AND C178	E.1/18 AND E.1/140 AND E.1/110 AND E.1/111	No												
att lef	ext tribute – ft ignment	Rel-5	9.1			C153 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	No											

34

n	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – center alignment	Rel-5	9.2			C154 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	No		5.5.									
	Text attribute – right alignment	Rel-5	9.3			C155 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	No											
	Text attribute – large font size	Rel-5	9.4			C157 AND C156 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	No											
	Text attribute – small font size	Rel-5	9.5			C158 AND C156 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	No											
	Text attribute – bold on	Rel-5	9.6			C160 AND C159 AND C177 AND C178	E.1/18 AND E.1/124 E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	No											

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – italic on	Rel-5	9.7			C161 AND C159 AND C177 AND C178	E.1/18 AND E.1/124 E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	No											
	Text attribute – underlined on	Rel-5	9.8			C162 AND C159 AND C177 AND C178	E.1/18 AND E.1/124 E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	No											
	Text attribute – strikethou gh on	Rel-5	9.9			C163 AND C159 AND C177 AND C178	E.1/18 AND E.1/124 E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	No											
	Text attribute – foregroun d and backgroun d colours	Rel-5	9.10			C164 AND C165 AND C177 AND C178	E.1/18 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	No											
	UCS2 display in Chinese	R99	10.1			C143 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No											

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	UCS2 display in Chinese, Long text up to 70 chars	R99	10.2			C143 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No		0.01									
	UCS2 entry in Chinese	R99	11.1			C142 AND C177 AND C178	E.1/18 AND E.1/14 AND E.1/110 AND E.1/111	No											
	UCS2 display in Katakana	R99	12.1			C145 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No											
	UCS2 display in Katakana, Long text up to 70 chars	R99	12.2			C145 AND C177 AND C178	E.1/18 AND E.1/15 AND E.1/110 AND E.1/111	No											
	UCS2 entry in Katakana	R99	13.1			C144 AND C177 AND C178	E.1/18 AND E.1/14 AND E.1/110 AND E.1/111	No											
	Frames	Rel-6	TBD													E.1/18 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
6	GET INPUT 27.22 .4.3																		
	input unpacked	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	C177 AND C178	C177 AND C178	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		

De	escripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	put acked	R99	1.2	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No		eter											
dig	gits only	R99	1.1	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
	MS phabet	R99	1.3	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
	dden put	R99	1.4	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
ac	in / max cceptabl length	R99	1.5, 1.9	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
s n Ul	ackward move in ICC ession	R99	1.6	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
ter	ession rminate by user	R99	1.7	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
tex	rompt xt up to 60 bytes	R99	1.8	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
alp ME eci pa no	efault phabet, E to cho text, acking	R99	1.9	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													

Descri on		Re- ease	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
Null length the text string	for	R99	1.10	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
no respon from us	se	R99	2.1	C120 AND C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
UCS2 display Cyrillic	in	R99	3.1, 3.2	C118 AND C177 AND C178	E.1/19 AND E.1/15 AND E.1/110 AND E.1/111	No													
UCS2 entry ir Cyrillic	ı	R99	4.1, 4.2	C105 AND C177 AND C178	E.1/19 AND E.1/14 AND E.1/110 AND E.1/111	No													
default text for the inp		R99	5.1, 5.2	C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
Icons – basic id		R99	6.1, 6.2	C108 AND C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
lcons - colour icon	R	₹99	6.3, 6.4	C171 AND C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													
help informa n		₹99	7.1	C107 AND C177 AND C178	E.1/19 AND E.1/110 AND E.1/111	No													

m	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute– left alignment	Rel-5	8.1			C153 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	No		oto:									
	Text attribute – center alignment	Rel-5	8.2			C154 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	No											
	Text attribute – right alignment	Rel-5	8.3			C155 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	No											
	Text attribute – large font size	Rel-5	8.4			C157 AND C156 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	No											
	Text attribute – small font size	Rel-5	8.5			C158 AND C156 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	No											

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – bold on	Rel-5	8.6			C160 AND C159 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	No											
	Text attribute – italic on	Rel-5	8.7			C161 AND C159 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	No											
	Text attribute – underlined on	Rel-5	8.8			C162 AND C159 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	No											
	Text attribute – strikethrou gh on	Rel-5	8.9			C163 AND C159 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	No											

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – foregroun d and backgroun d colours	Rel-5	8.10			C164 AND C165 AND C177 AND C178	E.1/19 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND	No											
	UCS2 display in Chinese	R99	9.1, 9.2			C143 AND C177 AND C178	E.1/19 AND E.1/15 AND E.1/110 AND E.1/111	No											
	UCS2 entry in Chinese	R99	10.1, 10.2			C142 AND C177 AND C178	E.1/19 AND E.1/14 AND E.1/110 AND E.1/111	No											
	UCS2 display in Katakana	R99	11.1, 11.2			C145 AND C177 AND C178	E.1/19 AND E.1/15 AND E.1/110 AND E.1/111	No											
	UCS2 entry in Katakana	R99	12.1, 12.2			C144 AND C177 AND C178	E.1/19 AND E.1/14 AND E.1/110 AND E.1/111	No											
	Frames	Rel-6	TBD													E.1/119 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
7	MORE TIME 27.22	R99	1.1	М	М	М	М	М	М	М	М	М	М	М	М	E.1/20	No		

1	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	PLAY TONE 27.22 .4.5																		
	play all tones, display alpha, user terminatio n, superimpo se	R99	1.1	C178 AND C179 AND C180	C178 AND C179 AND C180	C178 AND C179 AND C180	C178 AND C179 AND C180	C178 AND C179 AND C180	C178 AND C179 AND C180 AND C183	E.1/21 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001						
	UCS2 display in Cyrillic	R99	2.1	C118 AND C179	C118 AND C179	C118 AND C179	C118 AND C179	C118 AND C179	C118 AND C179	C118 AND C179	C118 AND C179	C118 AND C179	C118 AND C179	C118 AND C179	C118 AND C179	E.1/21 AND E.1/15 AND E.1/110	No		TCEP 001
	lcons – basic icon	R99	3.1, 3.2	C108 AND C179	C108 AND C179	C108 AND C179	C108 AND C179	C108 AND C179	C108 AND C179	C108 AND C179	C108 AND C179	C108 AND C179	C108 AND C179	C108 AND C179	C108 AND C179	E.1/21 AND E.1/110	No		TCEP 001
	lcons – colour icon	R99	3.3, 3.4	C171 AND C179	C171 AND C179	C171 AND C179	C171 AND C179	C171 AND C179	C171 AND C179	C171 AND C179	C171 AND C179	C171 AND C179	C171 AND C179	C171 AND C179	C171 AND C179	E.1/21 AND E.1/110	No		TCEP 001
	Text attribute – left alignment	Rel-5	4.1			C153 AND C179	C153 AND C179	C153 AND C179	C153 AND C179	C153 AND C179	C153 AND C179	C153 AND C179	C153 AND C179	C153 AND C179	C153 AND C179	E.1/21 AND E.1/124 AND E.1/217 AND E.1/110	No		TCEP 001
	Text attribute – center alignment	Rel-5	4.2			C154 AND C179	C154 AND C179	C154 AND C179	C154 AND C179	C154 AND C179	C154 AND C179	C154 AND C179	C154 AND C179	C154 AND C179	C154 AND C179	E.1/21 AND E.1/124 AND E.1/218 AND E.1/110	No		TCEP 001
	Text attribute – right alignment	Rel-5	4.3			C155 AND C179	C155 AND C179	C155 AND C179	C155 AND C179	C155 AND C179	C155 AND C179	C155 AND C179	C155 AND C179	C155 AND C179	C155 AND C179	E.1/21 AND E.1/124 AND E.1/219 AND E.1/110	No		TCEP 001

ו [	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
a la	ext ttribute – arge font ize	Rel-5	4.4			C157 AND C156 AND C179	E.1/21 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	No		TCEP 001									
a s	ext ttribute – mall font ize	Rel-5	4.5			C158 AND C156 AND C179	E.1/21 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	No		TCEP 001									
а	ext ttribute – old on	Rel-5	4.6			C160 AND C159 AND C179	E.1/21 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	No		TCEP 001									
а	ext ttribute – alic on	Rel-5	4.7			C161 AND C159 AND C179	E.1/21 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	No		TCEP 001									
а	ext ttribute – nderlined in	Rel-5	4.8			C162 AND C159 AND C179	E.1/21 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	No		TCEP 001									

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – strikethrou gh on	Rel-5	4.9			C163 AND C159 AND C179	E.1/21 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	No		TCEP 001									
	Text attribute– foregroun d and backgroun d colours	Rel-5	4.10			C164 AND C165 AND C179	E.1/21 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	No		TCEP 001									
	UCS2 display in Chinese	R99	5.1			C143 AND C179	E.1/21 AND E.1/15 AND E.1/110	No		TCEP 001									
	UCS2 display in Katakana	R99	6.1			C145 AND C179	E.1/21 AND E.1/15 AND E.1/110	No		TCEP 001									
	Frames	Rel-6	TBD													E.1/21 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
	Themed and Melody tones	Rel-6	TBD													E.1/21 AND E.1/171 AND E.1/110	TBD		
9	POLL INTERVA L 27.22																		
10	duration REFRES H 27.22	R99	1.1	M	M	M	M	M	M	M	M	M	M	M	M	E.1/22	No		

D	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
ini n, er FI	SIM itializatio nabling DN iode	R99	1.1	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180 AND C183	E.1/24 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
nc	nange otificatio of FDN	R99	1.2	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180 AND C183	E.1/24 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
ini n ch no	SIM itializatio and file nange otificatio of ADN	R99	1.3	C168 AND C177 AND C178	C168 AND C177 AND C178	C168 AND 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	C177 AND C178	E.1/24 AND E.1/110 AND E.1/111	No		
ini n file ch nc n, er FI	SIM itializatio and full e nange otificatio nabling DN ode	R99	1.4	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180 AND C183	E.1/24 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
UI	ICC eset	R99	1.5				М	М	М	М	М	М	М	М	М	E.1/24	No		
U: Ini n : SI da	SIM uitializatio after MS-PP ata ownload	R99	1.6	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180 AND C183	E.1/24 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								

tem	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Addit onal test case execution param
	USIM Applicatio n Reset	R99	1.7				C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180	C146 AND C177 AND C178 AND C180 AND C183	E1/24 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		eter						
	UICC Reset for IMSI Changing procedure	R99	2.1						M	М	М	М	М	М	М	E1/24	UMTS System Simulator or System Simulator only		
	USIM Applicatio n Reset for IMSI Changing procedure	R99	2.2				М	М	M	М	М	М	М	М	М	E.1/24	Yes		
	3G Session Reset for IMSI Changing procedure	R99	2.3						М	М	М	М	М	М	М	E1/24	UMTS System Simulator or System Simulator only		
	reject 3G Session Reset for IMSI Changing procedure during CScall	R99	2.4				C177 AND C178 AND C180	C177 AND C178 AND C180	C177 AND C178 AND C180 AND C183	E 1/24 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	reject UICC Reset for IMSI Changing procedure during CS call	R99	2.5						C177 AND C178 AND C180 AND C183	E1/24 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	UICC Reset for IMSI Changing procedure during active PDP context	R99	2.6						C215	E1/24	UMTS System Simulator or System Simulator only								

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	3G Session Reset for IMSI Change procedure during active PDP context	R99	2.7						C215	E1/24	UMTS System Simulator or System Simulator only								
	Steering of roaming, UTRAN	Rel-7	3.1					М	C184	E.1/24 AND E.1/236	UMTS System Simulator only								
	Steering of roaming, InterRAT	Rel-7	3.2					C167	C167 AND C184	E.1/24 AND E.1/236	UMTS System Simulator and System Simulator								
	Steering of roaming, E-UTRAN	Rel-8	3.3						C190	C190	C190	C190	C190	C222	C222	E.1/24 AND AND E.1/135 AND E.1/236	E-USS or NB-SS (See NOTE)		
	Refresh with AID, E-UTRAN or UTRAN	Rel-8	4.1					C203	C202 OR C203	C202 OR C203	C202 OR C203	C202 OR C203	C202 OR C203	C202 OR C203	C202 OR C203	E.1/24	E-USS only or UMTS System Simulator		
	UICC Reset for IMSI Changing procedure , E- UTRAN	Rel-8	5.1						C190	C190	C190	C190	C190	C222	C222	E.1/24	E-USSor NB-SS (See NOTE)		
	3G Session Reset for IMSI Changing procedure , E- UTRAN	Rel-8	5.2						C190	C190	C190	C190	C190	C222	C222	E.1/24	E-USSor NB-SS (See NOTE)		
11	SET UP MENU 27.22 .4.8																		

Descript on	i 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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Addit onal test case execution paran eter
Set up, menu selection, replace and remove menu	R99	1.1	C177 AND C178	E.1/30 AND E.1/4 AND E.1/110 AND E.1/111	No													
Large menu	R99	1.2	C177 AND C178	E.1/30 AND E.1/4 AND E.1/110 AND E.1/111	No													
help information	R99	2.1	C107 AND C177 AND C178	E.1/30 AND E.1/4 AND E.1/110 AND E.1/111	No													
next action indicator	R99	3.1	C177 AND C178	E.1/30 AND E.1/110 AND E.1/111	No													
Icons	R99	4.1, 4.2	C172 AND C177 AND C178	E.1/30 AND E.1/110 AND E.1/111	No													
soft key access	R99	5.1	C112 AND C177 AND C178	E.1/30 AND E.1/74 AND E.1/110 AND E.1/111	No													
Text attribute - left alignmen		6.1			C153 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	No											

em	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – center alignment	Rel-5	6.2			C154 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	No											
	Text attribute – right alignment	Rel-5	6.3			C155 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	No											
	Text attribute – large font size	Rel-5	6.4			C157 AND C156 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	No											
	Text attribute – small font size	Rel-5	6.5			C158 AND C156 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	No											
	Text attribute – bold on	Rel-5	6.6			C160 AND C159 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	No											

n	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – italic on	Rel-5	6.7			C161 AND C159 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	No											
	Text attribute – underlined on	Rel-5	6.8			C162 AND C159 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	No											
	Text attribute – strikethrou gh on	Rel-5	6.9			C163 AND C159 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	No											
	Text attribute – foregroun d and backgroun d colours	Rel-5	6.10			C164 AND C165 AND C177 AND C178	E.1/30 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	No											
	UCS2 display in Cyrillic	R99	7.1			C118 AND C177 AND C178	E.1/39 AND E.1/15 AND E.1/110 AND E.1/111	No											

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	UCS2 display in Chinese	R99	8.1			C143 AND C177 AND C178	E.1/39 AND E.1/15 AND E.1/110 AND E.1/111	No		etei									
	UCS2 display in Katakana	R99	9.1			C145 AND C177 AND C178	E.1/39 AND E.1/15 AND E.1/110 AND E.1/111	No											
12	SELECT ITEM 27.22 .4.9																		
	Mandator y features	R99	1.1	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No													
	Large menu	R99	1.2, 1.3, 1.5,1.6	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No													
	Backward s move	R99	1.4	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No													
	user terminatio n	R99	1.5	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No													
	next action indicator	R99	2.1	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No													
	default selected item	R99	3.1	C177 AND C178 AND C194	E.1/25 AND E.1/110 AND E.1/111	No													

Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
help informatio n	R99	4.1	C107 AND C177 AND C178	E 1/25 AND E.1/110 AND E.1/111	No													
Icons	R99	5.1, 5.2	C172 AND C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No													
Presentat on style	R99	6.1, 6.2	C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No													
Soft keys	R99	7.1	C112 AND C177 AND C178	E.1/25 AND E.1/73 AND E.1/110 AND E.1/111	No													
No Response from user	R99	8.1	C120 AND C177 AND C178	E.1/25 AND E.1/110 AND E.1/111	No													
Text attribute – left alignment	Rel-5	9.1			C153 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	No											
Text attribute – center alignment	Rel-5	9.2			C154 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/218 AND E.1/110 AND	No											

De	escripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
righ	ribute –	Rel-5	9.3			C155 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	No		cici									
Tex attr larç size	ribute – ge font	Rel-5	9.4			C157A ND C156 AND C177 AND C178	C157AN D C156 AND C177 AND C178	C157AN D C156 AND C177 AND C178	C157 AND C156 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	No								
	ribute – nall font	Rel-5	9.5			C158A ND C156 AND C177 AND C178	C158AN D C156 AND C177 AND C178	C158AN D C156 AND C177 AND C178	C158 AND C156 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	No								
	ext ribute – Id on	Rel-5	9.6			C160 AND C159 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	No											
	ext ribute – lic on	Rel-5	9.7			C161 AND C159 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	No											

	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – underline on	Rel-5	9.8			C162 AND C159 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	No											
	Text attribute – strikethrou gh on	Rel-5	9.9			C163 AND C159 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	No											
	Text attribute – foregroun d and backgroun d colours	Rel-5	9.10			C164 AND C165 AND C177 AND C178	E.1/25 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	No											
ı	UCS2 display in Cyrillic	R99	10.1, 10.2, 10.3			C118 AND C177 AND C178	E.1/39 AND E.1/15 AND E.1/110 AND E.1/111	No											
ı	UCS2 display in Chinese	R99	11.1			C143 AND C177 AND C178	E.1/25 AND E.1/15 AND E.1/110 AND E.1/111	No											

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	UCS2 display in Katakana	R99	12.1, 12.2, 12.3			C145 AND C177 AND C178	E.1/25 AND E.1/15 AND E.1/110 AND E.1/111	No											
	Frames	Rel-6	TBD													E.1/25 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
13	SEND SMS 27.22 .4.10															L.1/111			
	Void Send Short Message over CS/PS, UTRAN/G ERAN	R99 R99	1.1 - 1.8 1.9	C209	C209	C209	C209	C209	C210	E.1/26 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	UCS2 SMS in Cyrillic	R99	2.1	C118	C118	C118	C118	NA	E.1/26 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001							
	Icons – basic icon	R99	3.1, 3.2	C108	C108	C108	C108	NA	E.1/26 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001							
	Text attribute– left alignment	Rel-5	4.1			C153	C153	NA	E.1/26 AND E.1/124 AND E.1/217 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001							

1	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – center alignment	Rel-5	4.2			C154	C154	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/124 AND E.1/218 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
	Text attribute – right alignment	Rel-5	4.3			C155	C155	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/124 AND E.1/219 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
	Text attribute – large font size	Rel-5	4.4			C157A ND C156	C157AN D C156	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
	Text attribute – small font size	Rel-5	4.5			C158A ND C156	C158AN D C156	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
	Text attribute – bold on	Rel-5	4.6			C160 AND C159	C160 AND C159	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
	Text attribute – italic on	Rel-5	4.7			C161 AND C159	C161 AND C159	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001

Descrip on	ti 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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
Text attribute underline on		4.8			C162 AND C159	C162 AND C159	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001
Text attribute- strikethro gh on		4.9			C163 AND C159	C163 AND C159	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001
Text attribute foregrou d and backgrou d colours	n un S	4.10			C164 AND C165	C164 AND C165	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001
UCS2 display ii Chinese		5.1			C143	C143	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001
UCS2 display ii Katakan		6.1			C145	C145	NA	NA	NA	NA	NA	NA	NA	NA	E.1/26 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001
SMS- over-IP, E-UTRA	Rel-8	7.1						C196	C196	C196	C196	C196	C196	C196	E.1/26 AND AND E.1/110	E-USS only		TCEF 001
SMS- over-IP, UTRAN	Rel-7	7.2					C197	C197	C197	C197	C197	C197	C197	C197	E.1/26 AND AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001
Send Short Message over SG E-UTRA	s.	8.1						C206	C206	C206	C206	C206	C220	C220	E.1/26 AND AND E.1/110	E-USS or NB-SS (See NOTE)		TCEP 001

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Frames	Rel-6	TBD													E.1/26 AND E.1/177 AND E.1/178 AND E.1/110	TBD		TCEP 001
14	SEND SS 27.22																		
	call forward unconditio nal, all bearers, successful	R99	1.1	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	call forward unconditio nal, all bearers, Return Error	R99	1.2	C174 AND C204	C174 AND C204	C174 AND C204	C174 AND C204	C174 AND C204	C174 AND C183 AND C204	E.1/27 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	call forward unconditio nal, all bearers, Reject	R99	1.3	C174 AND C204	C174 AND C204	C174 AND C204	C174 AND C204	C174 AND C204	C174 AND C183 AND C204	E.1/27 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	call forward unconditio nal, all bearers, successful , SS request size limit	R99	1.4	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	interrogat e CLIR status, successful , alpha identifier limits	R99	1.5	C175 AND C204	C175 AND C204	C175 AND C204	C175 AND C204	C175 AND C204	C175 AND C183 AND C204	E.1/27 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
call forward unconditio nal, all bearers, successful , null data alpha identifier		1.6	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C204	C166 AND C174 AND C183	C166 AND C174 AND C183 AND C204	C166 AND C174 AND C183 AND C204	C166 AND C174 AND C183 AND C204	C166 AND C174 AND C183 AND C204	C166 AND C174 AND C183 AND C204	C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
call forward unconditio nal, all bearers, successful , basic icon support		2.1, 2.3	C108 AND C174 AND C204	C108 AND C174 AND C204	C108 AND C174 AND C204	C108 AND C174 AND C204	C108 AND C174 AND C204	C108 AND C174 AND C183 AND C204	E.1/27 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001						
call forward unconditio nal, all bearers, successful , colour icon support		2.2	C171 AND C174 AND C204	C171 AND C174 AND C204	C171 AND C174 AND C204	C171 AND C174 AND C204	C171 AND C174 AND C204	C171 AND C174 AND C183 AND C204	E.1/27 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001						
call forward unconditional, all bearers, successful, basic icon non self-explanatory, no alpha identifier presented		2.4	C185 AND C174 AND C204	C185 AND C174 AND C204	C185 AND C174 AND C204	C185 AND C174 AND C204	C185 AND C174 AND C204	C185 AND C174 AND C183 AND C204	C185 AND C174 AND C183 AND C204	C185 AND C174 AND C183 AND C204	C185 AND C174 AND C183 AND C204	C185 AND C174 AND C183 AND C204	C185 AND C174 AND C183 AND C204	C185 AND C174 AND C183 AND C204	E.1/27 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001
UCS2 display in Cyrillic	R99	3.1	C118 AND C174 AND C204	C118 AND C174 AND C204	C118 AND C174 AND C204	C118 AND C174 AND C204	C118 AND C174 AND C204	C118 AND C174 AND C183 AND C204	E.1/27 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

D	escripti on	Re- lease	Test sequence (s)	Rei 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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
at let	ext tribute – ft ignment	Rel-5	4.1			C153 AND C166 AND C174 AND C204	C153 AND C166 AND C174 AND C204	C153 AND C166 AND C174 AND C204	C153 AND C166 AND C174 AND C183 AND C204	C153 AND C166 AND C174 AND C183 AND C204	C153 AND C166 AND C174 AND C183 AND C204	C153 AND C166 AND C174 AND C183 AND C204	C153 AND C166 AND C174 AND C183 AND C204	C153 AND C166 AND C174 AND C183 AND C204	C153 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/124 AND E.1/217 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
at ce	ext tribute – enter ignment	Rel-5	4.2			C154 AND C166 AND C174 AND C204	C154 AND C166 AND C174 AND C204	C154 AND C166 AND C174 AND C204	C154 AND C166 AND C174 AND C183 AND C204	C154 AND C166 AND C174 AND C183 AND C204	C154 AND C166 AND C174 AND C183 AND C204	C154 AND C166 AND C174 AND C183 AND C204	C154 AND C166 AND C174 AND C183 AND C204	C154 AND C166 AND C174 AND C183 AND C204	C154 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/124 AND E.1/218 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001
at riç	ext tribute – ght ignment	Rel-5	4.3			C155 AND C166 AND C174 AND C204	C155 AND C166 AND C174 AND C204	C155 AND C166 AND C174 AND C204	C155 AND C166 AND C174 AND C183 AND C204	C155 AND C166 AND C174 AND C183 AND C204	C155 AND C166 AND C174 AND C183 AND C204	C155 AND C166 AND C174 AND C183 AND C204	C155 AND C166 AND C174 AND C183 AND C204	C155 AND C166 AND C174 AND C183 AND C204	C155 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/124 AND E.1/219 AND E.1/110	UMTS System Simulator or System Simulator only		TCE 001
at la	ext tribute – rge font ze	Rel-5	4.4			C157A ND C156A ND C166 AND C174 AND C204	C157AN D C156AN DC166 AND C174 AND C204	C157AN D C156AN DC166 AND C174 AND C204	C157AN D C156AN DC166 AND C174 AND C183 AND C204	C157AN D C156AN DC166 AND C174 AND C183 AND C204	C157AN D C156AN DC166 AND C174 AND C183 AND C204	C157AN D C156AN DC166 AND C174 AND C183 AND C204	C157AN D C156AN DC166 AND C174 AND C183 AND C204	C157AN D C156AN DC166 AND C174 AND C183 AND C204	C157AND C156AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	UMTS System Simulator or System Simulator only		TCE 001
at sn	ext tribute – nall font ze	Rel-5	4.5			C158A ND C156 AND C166 AND C174 AND C204	C158AN D C156 AND C166 AND C174 AND C204	C158AN D C156 AND C166 AND C174 AND C204	C158AN D C156 AND C166 AND C174 AND C183 AND C204	C158AND C156 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	UMTS System Simulator or System Simulator only		TCE 001					

m Descri on	oti 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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
Text attribute bold on	Rel-5	4.6			C160 AND C159 AND C166 AND C174 AND C204	C160 AND C159 AND C166 AND C174 AND C204	C160 AND C159 AND C166 AND C174 AND C204	C160 AND C159 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
Text attribute italic on	Rel-5	4.7			C161 AND C159 AND C166 AND C174 AND C204	C161 AND C159 AND C166 AND C174 AND C204	C161 AND C159 AND C166 AND C174 AND C204	C161 AND C159 AND C166 AND C174 AND C183 AND C204	C161 AND C159 AND C166 AND C174 AND C183 AND C204	C161 AND C159 AND C166 AND C174 AND C183 AND C204	C161 AND C159 AND C166 AND C174 AND C183 AND C204	C161 AND C159 AND C166 AND C174 AND C183 AND C204	C161 AND C159 AND C166 AND C174 AND C183 AND C204	C161 AND C159 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
Text attribute underlir on		4.8			C162 AND C159 AND C166 AND C174 AND C204	C162 AND C159 AND C166 AND C174 AND C204	C162 AND C159 AND C166 AND C174 AND C204	C162 AND C159 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
Text attribute striketh gh on		4.9			C163 AND C159 AND C166 AND C174 AND C204	C163 AND C159 AND C166 AND C174 AND C204	C163 AND C159 AND C166 AND C174 AND C204	C163 AND C159 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – foregroun d and backgroun d colours	Rel-5	4.10			C164 AND C165 AND C166 AND C174 AND C204	C164 AND C165 AND C166 AND C174 AND C204	C164 AND C165 AND C166 AND C174 AND C204	C164 AND C165 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/211	UMTS System Simulator or System Simulator only		TCEP 001						
	UCS2 display in Chinese	R99	5.1			C143 AND C166 AND C174 AND C204	C143 AND C166 AND C174 AND C204	C143 AND C166 AND C174 AND C204	C143 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	UCS2 display in Katakana	R99	6.1			C145 AND C166 AND C174 AND C204	C145 AND C166 AND C174 AND C204	C145 AND C166 AND C174 AND C204	C145 AND C166 AND C174 AND C183 AND C204	E.1/27 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
15	SEND USSD 27.22																		
	7-bit data, successful	R99	1.1	C204	C204	C204	C204	C204	C183 AND C204	E.1/28 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	8-bit data, successful	R99	1.2	C204	C204	C204	C204	C204	C183 AND C204	E.1/28 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	UCS2 data, successful	R99	1.3	C204	C204	C204	C204	C204	C183 AND C204	E.1/28 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	7-bit data, unsucces sful	R99	1.4	C204	C204	C204	C204	C204	C183 AND C204	E.1/28 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	7-bit data, unsucces sful	R99	1.5	C204	C204	C204	C204	C204	C183 AND C204	E.1/28 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	256 octets, 7- bit data, successful , long alpha identifier	R99	1.6	C204	C204	C204	C204	C204	C183 AND C204	E.1/28 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	7-bit data, successful , no alpha identifier	R99	1.7	C204	C204	C204	C204	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	E.1/28 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	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	E.1/28 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	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	E.1/28 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	7-bit data, basic icon non self- explanator y, 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	E.1/28 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

n	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	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	E.1/28 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
i	Text attribute – left alignment	Rel-5	4.1			C153 AND C204	C153 AND C204	C153 AND C204	C153 AND C183 AND C204	E.1/28 AND E.1/124 AND E.1/217 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
į	Text attribute – center alignment	Rel-5	4.2			C154 AND C204	C154 AND C204	C154 AND C204	C154 AND C183 AND C204	E.1/28 AND E.1/124 AND E.1/218 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
1	Text attribute – right alignment	Rel-5	4.3			C155 AND C204	C155 AND C204	C155 AND C204	C155 AND C183 AND C204	E.1/28 AND E.1/124 AND E.1/219 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
i	Text attribute – large font size	Rel-5	4.4			C157A ND C156 AND C204	C157AN D C156 AND C204	C157AN D C156 AND C204	C157 AND C156 AND C183 AND C204	E.1/28 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
;	Text attribute – small font size	Rel-5	4.5			C158A ND C156 AND C204	C158AN D C156 AND C204	C158AN D C156 AND C204	C158 AND C156 AND C183 AND C204	E.1/28 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

Descri on	pti Re- lease	Test seque (s)	Jence	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
Text attribute bold on		5 4.6				C160 AND C159 AND C204	C160 AND C159 AND C204	C160 AND C159 AND C204	C160 AND C159 AND C183 AND C204	E.1/28 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
Text attribute italic on						C161 AND C159 AND C204	C161 AND C159 AND C204	C161 AND C159 AND C204	C161 AND C159 AND C183 AND C204	E.1/28 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001						
Text attribute underlir on		5 4.8				C162 AND C159 AND C204	C162 AND C159 AND C204	C162 AND C159 AND C204	C162 AND C159 AND C183 AND C204	E.1/28 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001						
Text attribute striketh gh on		5 4.9				C163 AND C159 AND C204	C163 AND C159 AND C204	C163 AND C159 AND C204	C163 AND C159 AND C183 AND C204	E.1/28 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	UMTS System Simulator or System Simulator only		TCEF 001						
Text attribute foregro d and backgro d colou	un oun	5 4.10				C164 AND C165 AND C204	C164 AND C165 AND C204	C164 AND C165 AND C204	C164 AND C165 AND C183 AND C204	E.1/28 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
UCS2 in Chinese		5.1				C143 AND C204	C143 AND C204	C143 AND C204	C143 AND C183 AND C204	E.1/28 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	UCS2 in Katakana	R99	6.1			C145 AND C204	C145 AND C204	C145 AND C204	C145 AND C183 AND C204	E.1/28 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
16	SET UP CALL 27.22 .4.13																		
	Call confirmed by the user and connected	R99	1.1	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 AND C183	E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	call rejected by the user	R99	1.2	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 AND C183	E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	void putting all other calls on hold, ME busy	R99	1.4	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180	C170 AND C177 AND C178 AND C180 AND C183	E.1/29 E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	disconnec ting all other calls, ME busy	R99	1.5	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 AND C183	E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	only if not currently busy on another call, ME busy	R99	1.6	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 AND C183	E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								

D	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Add ons tes cas exe- tio
pı	utting all	R99	1.7	C170	C170	C170	C170	C170	C170	C170	C170	C170	C170	C170	C170	E.1/29	UMTS		para
ot or ca	ther calls n hold, all hold is			AND C177 AND C178	AND C177 AND C178	AND C177 AND C178	AND C177 AND C178	AND C177 AND C178	AND C177 AND C178	AND C177 AND C178	AND C177 AND C178	AND C177 AND C178	AND C177 AND C178	AND C177 AND C178	AND C177 AND C178	AND E.1/110 AND E.1/111	System Simulator or System Simulator		
	llowed			AND C180	AND C180	AND C180	AND C180	AND C180	AND C180 AND C183	2.1/111	only								
	apability onfigurati n	R99	1.8	C101 AND C177 AND	C101 AND C177 AND	C101 AND C177 AND	C101 AND C177 AND	C101 AND C177 AND	C101 AND C177 AND	C101 AND C177 AND	C101 AND C177 AND	C101 AND C177 AND	C101 AND C177 AND	C101 AND C177 AND	C101 AND C177 AND	E.1/29 AND E.1/110 AND	UMTS System Simulator or System		
				C178 AND C180	C178 AND C180	C178 AND C180	C178 AND C180	C178 AND C180	C178 AND C180 AND C183	E.1/111	Simulator								
di nı	ing ialling umber iring	R99	1.9	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 AND	E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
al	ng first Ipha Ientifier	R99	1.10	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	C183 C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
pa	alled arty ubaddres	R99	1.11	C124 AND C177 AND C178 AND C180	C124 AND C177 AND C178 AND C180	C124 AND C177 AND C178 AND C180	C124 AND C177 AND C178 AND C180	C124 AND C177 AND C178 AND C180	C183 C124 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
dı fo re	naximum uration or the edial nechanis	R99	1.12	C119 AND C177 AND C178 AND C180	C119 AND C177 AND C178 AND C180	C119 AND C177 AND C178 AND C180	C119 AND C177 AND C178 AND C180	C119 AND C177 AND C178 AND C180	C183 C119 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion
	second alpha	R99	2.1	C177 AND	C177 AND	C177 AND	C177 AND	C177 AND	C177 AND	C177 AND	C177 AND	C177 AND	C177 AND	C177 AND	C177 AND	E.1/29 AND	UMTS System		param eter
	identifier			C178 AND C180	C178 AND C180	C178 AND C180	C178 AND C180	C178 AND C180	C178 AND C180 AND C183	E.1/63 AND E.1/110 AND E.1/111	Simulator or System Simulator only								
	Icons – basic icon	R99	3.1,3.2, 3.4	C108 AND C177 AND C178 AND C180	C108 AND C177 AND C178 AND C180	C108 AND C177 AND C178 AND C180	C108 AND C177 AND C178 AND C180	C108 AND C177 AND C178 AND C180	C108 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	Icons – colour icon	R99	3.3	C171 AND C177 AND C178 AND C180	C171 AND C177 AND C178 AND C180	C171 AND C177 AND C178 AND C180	C171 AND C177 AND C178 AND C180	C171 AND C177 AND C178 AND C180	C171 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	Text attribute – left alignment	Rel-5	4.1			C153 AND C177 AND C178 AND C180	C153 AND C177 AND C178 AND C180	C153 AND C177 AND C178 AND C180	C153 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	Text attribute – center alignment	Rel-5	4.2			C154 AND C177 AND C178 AND C180	C154 AND C177 AND C178 AND C180	C154 AND C177 AND C178 AND C180	C154 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	Text attribute – right alignment	Rel-5	4.3			C155 AND C177 AND C178 AND C180	C155 AND C177 AND C178 AND C180	C155 AND C177 AND C178 AND C180	C155 AND C177 AND C178 AND C180 AND C183	C155 AND C177 AND C178 AND C180 AND C183	C155 AND C177 AND C178 AND C180 AND C183	C155 AND C177 AND C178 AND C180 AND C183	C155 AND C177 AND C178 AND C180 AND C183	C155 AND C177 AND C178 AND C180 AND C183	C155 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		

em	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – large font size	Rel-5	4.4			C157A ND C156 AND C177 AND C178 AND C180	C157AN D C156 AND C177 AND C178 AND C180	C157AN D C156 AND C177 AND C178 AND C180	C157AN D C156 AND C177 AND C178 AND C180 AND C183	C157AND C156 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only							
	Text attribute – small font size	Rel-5	4.5			C158A ND C156 AND C177 AND C178 AND C180	C158AN D C156 AND C177 AND C178 AND C180	C158AN D C156 AND C177 AND C178 AND C180	C158AN D C156 AND C177 AND C178 AND C180 AND C183	C158AND C156 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only							
	Text attribute – bold on	Rel-5	4.6			C160 AND C159 AND C177 AND C178 AND C180	C160 AND C159 AND C177 AND C178 AND C180	C160 AND C159 AND C177 AND C178 AND C180	C160 AND C159 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
	Text attribute – italic on	Rel-5	4.7			C161 AND C159 AND C177 AND C178 AND C180	C161 AND C159 AND C177 AND C178 AND C180	C161 AND C159 AND C177 AND C178 AND C180	C161 AND C159 AND C177 AND C178 AND C180 AND C183	E.1/29 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								

1	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param
	Toyt	Pol 5	4.9			C162	C162	C162	C162	C162	C162	C162	C162	C162	C162	E 1/20	LIMTS		eter
	Text attribute – underline on	Rel-5	4.8			C162 AND C159 AND C177 AND C178 AND C180	C162 AND C159 AND C177 AND C178 AND C180	C162 AND C159 AND C177 AND C178 AND C180	C162 AND C159 AND C177 AND C178 AND C180 AND	C162 AND C159 AND C177 AND C178 AND C180 AND	C162 AND C159 AND C177 AND C178 AND C180 AND	C162 AND C159 AND C177 AND C178 AND C180 AND	C162 AND C159 AND C177 AND C178 AND C180 AND	C162 AND C159 AND C177 AND C178 AND C180 AND	C162 AND C159 AND C177 AND C178 AND C180 AND	E.1/29 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND	UMTS System Simulator or System Simulator only		
	Text attribute – strikethrou gh on	Rel-5	4.9			C163 AND C159 AND C177 AND C178 AND C180	C163 AND C159 AND C177 AND C178 AND C180	C163 AND C159 AND C177 AND C178 AND C180	C183 C163 AND C159 AND C177 AND C178 AND C180 AND C183	C183 C163 AND C159 AND C177 AND C178 AND C180 AND C183	C183 C163 AND C159 AND C177 AND C178 AND C178 AND C180 AND C183	C183 C163 AND C159 AND C177 AND C178 AND C180 AND C183	C183 C163 AND C159 AND C177 AND C178 AND C180 AND C183	C183 C163 AND C159 AND C177 AND C178 AND C180 AND C183	C183 C163 AND C159 AND C177 AND C178 AND C180 AND C183	E.1/111 E.1/29 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND	UMTS System Simulator or System Simulator only		
	Text attribute – foregroun d and backgroun d 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	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	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	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		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	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	E.1/29 AND E.1/15 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		5.5.						
	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	POLLING OFF 27.22 .4.14																		
	POLLING OFF	R99	1.1	C180	C180	C180	C180	C180	C180 AND C183	C180 AND C183	C180 AND C183	C180 AND C183	C183	C183	C183	E.1/23	UMTS System Simulator or System Simulator only		
	POLLING OFF, E- UTRAN	Rel-8	1.2						C190	C190	C190	C190	C190	C222	C222	E.1/23	E-USSor NB-SS (See NOTE)		
18	PROVIDE LOCAL INFORMA TION 27.22																NOTE)		
	location informatio	R99	1.1	М	М	М	М	М	M	М	М	М	М	М	М	E.1/31	Yes		AER0 03
	IMEI	R99	1.2	М	М	М	М	М	М	М	М	М	М	М	М	E.1/31	No	1	<del> </del>
	network measure ment results and BCCH channel list	R99	1.3	C167	C167	C167	C167	C167	C167	C167	C167	C167	C167	C167	C167	E.1/32 AND E.1/67	System Simulator only		

Descri on		Re- ease	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Add on te ca exe tic par et
Date, ti and tim zone		R99	1.4	М	М	М	М	М	М	М	М	М	М	М	М	E.1/59	No		
langua( setting		R99	1.5	C217	C217	C217	C217	C217	C217	C217	C217	C217	C217	C217	C217	E.1/68	No		
Timing advanc	R	R99	1.6	C167	C167	C167	C167	C167	C167	C167	C167	C167	C167	C167	C167	E.1/69	System Simulator only		
Access Techno y		el-4	1.7				M	М	C184	C184	C184	C184	C184	C184	C184	E.1/72	UMTS System Simulator only		AE 0
Void																			
IMEISV		el-6	1.9	1		1	M	M	M	M	M	M	M	M	М	E.1/143	No		
Networ Search Mode		el-6	1.10							M	M	М	M	M	М	E.1/144	E-USS, UMTS System Simulator or System Simulator		
Charge State of the Battery	f	el-6	1.11				C139	C139	C139	C139	C139	C139	C139	C139	C139	E.1/170	No		
Intra- frequer UTRAN measur ments	ncy I	el-6	1.12				М	М	C184	C184	C184	C184	C184	C184	C184	E.1/183	UMTS System Simulator only		
Inter- frequer UTRAN measur ments	ncy 1	el-6	1.13				М	М	C184	C184	C184	C184	C184	C184	C184	E.1/183	UMTS System Simulator only		
Access Techno y, E- UTRAN	olog	el-8	1.14						C190	C190	C190	C190	C190	C222	C222	E.1/72	E-USS or NB-SS (See NOTE)		
E-UTRA Intra- Freque y	nc	el-8	1.15						C190	C190	C190	C190	C190	C190	C190	E.1/183	E-USS only		
Measur ments	re																		
E-UTR/ Intrer- Freque		el-8	1.16						C190	C190	C190	C190	C190	C190	C190	E.1/183	E-USS only		
y Measur ments	re																		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	E-UTRAN Local Info (MCC, MNC, TAC & E- UTRAN Cell ID)	Rel-8	1.17						C190	C190	C190	C190	C190	C190	C222	E.1/31 AND E.1/135	E-USS or NB-SS (See NOTE)		0.00
	Discovery of surroundi ng CSG cells	Rel-9	1.18							C195	C195	C195	C195	C195	C195	E.1/242	E-USS only		
	Location Informatio n for multiple Access Technolog ies	Rel-8	1.19						TBD	TBD									
	NMR for multiple Access Technolog ies	Rel-8	1.20						TBD	TBD									
	Current access technologi es, multiple Access Technolog ies	Rel-8	1.21						TBD	TBD									
19	SET UP EVENT LIST 27.22 .4.16																		
	Set up call connected event	R99	1.1	C180	C180	C180	C180	C180	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	E.1/33 AND E.1/35 AND E.1/36	UMTS System Simulator or System Simulator only								

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Remove event	R99	1.3	C180	C180	C180	C180	C180	C180 AND C183	E.1/33 AND E.1/35	UMTS System Simulator or System Simulator only		0101						
	Remove Event on ME Power Cycle	R99	1.4	C180	C180	C180	C180	C180	C180 AND C183	E.1/33 AND E.1/35	UMTS System Simulator or System Simulator only								
20	PERFOR M CARD APDU 27.22 .4.17																		
	Additional card inserted, Select MF and Get Response	R99	1.1	C109	C109	C109	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	C109	C109	C109	E.1/51	No		
	Additional card inserted, card powered off	R99	1.3	C109	C109	C109	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	C109	C109	C109	E.1/51	No		
	Invalid card reader identifier	R99	1.5	C109	C109	C109	C109	C109	C109	C109	C109	C109	C109	C109	C109	E.1/51	No		
	Detachabl e reader	R99	2.1	C116	C116	C116	C116	C116	C116	C116	C116	C116	C116	C116	C116	E.1/51	No		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rei-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param
21	POWER OFF CARD 27.22																		eter
	Additional card inserted	R99	1.1	C109	E.1/50	No													
	No card inserted Detachabl	R99 R99	2.1	C109 C116	E.1/50 E.1/50	No No													
22	e reader POWER ON CARD 27.22 .4.19	N33	2.1	0110	0110	0110	0110	- 0110	0110	0110	0110	0110	0110	0110	0110	L.1/30	INU		
	Additional card inserted	R99	1.1	C109	E.1/49	No													
	No ATR	R99	1.2	C109	E.1/49	No													
	No card inserted	R99	1.3	C109	E.1/49	No													
23	Detachable reader  GET  READER  STATUS  27.22	R99	2.1	C116	E.1/49	No													
	Additional card inserted, card powered	R99	1.1	C109	E.1/52	No													
	Additional card inserted, card not powered	R99	1.2	C109	E.1/52	No													
	Additional card inserted, card not present	R99	1.3	C109	E.1/52	No													
<u> </u>	Detachabl e reader	R99	2.1	C116	E.1/52	No													
24	TIMER MANAGE MENT 27.22																		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Dependen	Sup - port	Additi onal test case execu tion param eter
	Start timer 1 several times, get the current value of the timer and deactivate the timer successful ly	R99	1.1	М	М	М	М	М	M	М	М	М	М	М	М	E.1/57 AND E.1/58	No		
	Start timer 2 several times, get the current value of the timer and deactivate the timer successful	R99	1.2	М	М	М	М	М	М	М	М	М	М	М	М	E.1/57 AND E.1/58	No		
	Start timer 8 several times, get the current value of the timer and deactivate the timer successful ly	R99	1.3	М	М	М	М	М	М	М	М	М	М	М	М	E.1/57 AND E.1/58	No		
	Try to get the current value of a timer which is not started: action in contradicti on with the current timer state	R99	1.4	М	M	M	M	М	M	M	M	M	M	М	М	E.1/57 AND E.1/58	No		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Try to deactivate a timer which is not started: action in contradicti on with the current timer state	R99	1.5	M	М	M	М	М	M	M	M	M	M	M	М	E.1/57 AND E.1/58	No		Cici
	Start 8 timers successful ly	R99	1.6	М	М	М	М	М	М	М	М	М	М	М	М	E.1/57 AND E.1/58	No		
25	ENVELO PE TIMER EXPIRATI ON 27.22 .4.21.2																		
	Pending proactive UICC command	R99	2.1	М	M	М	М	М	М	М	М	М	М	М	М	E.1/6 AND E.1/57	No		
	USIM applicatio n toolkit busy	R99	2.2	M	М	М	М	М	М	М	М	М	М	М	М	E.1/6 AND E.1/57 AND E.1/20	No		
26	SET UP IDLE MODE TEXT 27.22																		
	Display idle mode text	R99	1.1	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		
	Replace idle mode text	R99	1.2	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		

De	escripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param
	emove le mode st	R99	1.3	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		eter
g inf n c	ompetin formatio on ME splay	R99	1.4	C177 AND C179 AND C180	C177 AND C179 AND C180	C177 AND C179 AND C180	C177 AND C179 AND C180	C177 AND C179 AND C180	C177 AND C179 AND C180 AND C183	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	UMTS System Simulator or System Simulator only								
	E owered vcled	R99	1.5	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		
wit	efresh ith USIM itializatio	R99	1.6	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/24 AND E.1/33 AND E.1/39 AND E.1/110	Yes		
	arge text ring	R99	1.7	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/110	Yes		
	ons – asic icon	R99	2.1, 2.2	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	C108 AND C177	E.1/61 AND E.1/39 AND E.1/110	Yes		
ico		R99	2.3	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	C171 AND C177	E.1/61 AND E.1/39 AND E.1/110	Yes		
se ex y,	on is not elf- cplanator empty xt string	R99	2.4	C188 AND C177	C188 AND C177	C188 AND C177	C188 AND C177	C188 AND C177	C188 AND C177	C188 AND C177	C188 AND C177	C188 AND C177	C188 AND C177	C188 AND C177	C188 AND C177	E.1/61 AND E.1/39 AND E.1/110	Yes		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	UCS2 display in Cyrillic	R99	3.1	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	C118 AND C177	E.1/61 AND E.1/15 AND E.1/39 AND E.1/110	Yes		ctor
	Text attribute – left alignment	Rel-5	4.1			C153 AND C177	C153 AND C177	C153 AND C177	C153 AND C177	C153 AND C177	C153 AND C177	C153 AND C177	C153 AND C177	C153 AND C177	C153 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/217 AND E.1/217	Yes		
	Text attribute – center alignment	Rel-5	4.2			C154 AND C177	C154 AND C177	C154 AND C177	C154 AND C177	C154 AND C177	C154 AND C177	C154 AND C177	C154 AND C177	C154 AND C177	C154 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/218 AND E.1/110	Yes		
	Text attribute – right alignment	Rel-5	4.3			C155 AND C177	C155 AND C177	C155 AND C177	C155 AND C177	C155 AND C177	C155 AND C177	C155 AND C177	C155 AND C177	C155 AND C177	C155 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/219 AND E.1/110	Yes		
	Text attribute – large font size	Rel-5	4.4			C157A ND C156 AND C177	C157AN D C156 AND C177	C157AN D C156 AND C177	C157 AND C156 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	Yes								

m	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – small font size	Rel-5	4.5			C158A ND C156 AND C177	C158AN D C156 AND C177	C158AN D C156 AND C177	C158 AND C156 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/210	Yes		eter						
	Text attribute – bold on	Rel-5	4.6			C160 AND C159 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	Yes											
	Text attribute – italic on	Rel-5	4.7			C161 AND C159 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/217	Yes											
	Text attribute – underline on	Rel-5	4.8			C162 AND C159 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/225 AND E.1/228 AND	Yes											

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – strikethrou gh on	Rel-5	4.9			C163 AND C159 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/219	Yes		etei									
	Text attribute – foregroun d and backgroun d colours	Rel-5	4.10			C164 AND C165 AND C177	E.1/61 AND E.1/33 AND E.1/39 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/231	Yes											
	UCS2 display in Chinese	R99	5.1			C143 AND C177	E.1/61 AND E.1/15 AND E.1/39 AND E.1/110	Yes											
	UCS2 display in Katakana	R99	6.1			C145 AND C177	E.1/61 AND E.1/15 AND E.1/39 AND E.1/110	Yes											
	Frames	Rel-6	TBD													E.1/61 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
27	RUN AT COMMAN D 27.22 .4.23																		

	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Addit onal test case execu- tion paran eter
	No alpha Identifier	R99	1.1	C110	C110	C110	C110	C110	C110	C110	C110	C110	C110	C110	C110	E.1/62	No		eter
i i	null data alpha dentifier presented	R99	1.2	C110	C110	C110	C110	C110	C110	C110	C110	C110	C110	C110	C110	E.1/62	No		
i	alpha dentifier presented	R99	1.3	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	C110 AND C177	E.1/62 AND E.1/110	No		
ji	cons – basic icon	R99	2.1, 2.3	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	C114 AND C177	E.1/62 AND E.1/110	No		
(	cons – colour con	R99	2.2, 2.4,	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	C173 AND C177	E.1/62 AND E.1/110	No		
1 6 2 3 1	pasic icon non self- explanator y, no alpha dentifier presented	R99	2.5	C189 AND C177	C189 AND C177	C189 AND C177	C189 AND C177	C189 AND C177	C189 AND C177	C189 AND C177	C189 AND C177	C189 AND C177	C189 AND C177	C189 AND C177	C189 AND C177	E.1/62 AND E.1/110	No		
á	Text attribute – eft alignment	Rel-5	3.1			C110 AND C153 AND C177	C110 AND C153 AND C177	C110 AND C153 AND C177	C110 AND C153 AND C177	C110 AND C153 AND C177	C110 AND C153 AND C177	C110 AND C153 AND C177	C110 AND C153 AND C177	C110 AND C153 AND C177	C110 AND C153 AND C177	E.1/62 AND E.1/124 AND E.1/217 AND E.1/110	No		
á	Text attribute – center alignment	Rel-5	3.2			C110 ANDC1 54 AND C177	C110 ANDC15 4 AND C177	C110 ANDC15 4 AND C177	C110 AND C154 AND C177	E.1/62 AND E.1/124 AND E.1/218 AND E.1/110	No								
1	Text attribute – right alignment	Rel-5	3.3			C110 ANDC1 55 AND C177	C110 ANDC15 5 AND C177	C110 ANDC15 5 AND C177	C110 AND C155 AND C177	E.1/62 AND E.1/124 AND E.1/219 AND E.1/110	No								
í	Text attribute – arge font size	Rel-5	3.4			C110 ANDC1 57AND C156 AND C177	C110 ANDC15 7AND C156 AND C177	C110 ANDC15 7AND C156 AND C177	C110 AND C157 AND C156 AND C177	E.1/62 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	No								

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – small font size	Rel-5	3.5			C110 ANDC1 58AND C156 AND C177	C110 ANDC15 8AND C156 AND C177	C110 ANDC15 8AND C156 AND C177	C110 AND C158 AND C156 AND C177	E.1/62 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	No								
	Text attribute – bold on	Rel-5	3.6			C110 ANDC1 60 AND C159 AND C177	C110 ANDC16 0 AND C159 AND C177	C110 ANDC16 0 AND C159 AND C177	C110 AND C160 AND C159 AND C177	E.1/62 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	No								
	Text attribute – italic on	Rel-5	3.7			C110 ANDC1 61 AND C159 AND C177	C110 ANDC16 1 AND C159 AND C177	C110 ANDC16 1 AND C159 AND C177	C110 AND C161 AND C159 AND C177	E.1/62 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	No								
	Text attribute – underline on	Rel-5	3.8			C110 ANDC1 62 AND C159 AND C177	C110 ANDC16 2 AND C159 AND C177	C110 ANDC16 2 AND C159 AND C177	C110 AND C162 AND C159 AND C177	E.1/62 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	No								
	Text attribute – strikethrou gh on	Rel-5	3.9			C110 ANDC1 63 AND C159 AND C177	C110 ANDC16 3 AND C159 AND C177	C110 ANDC16 3 AND C159 AND C177	C110 AND C163 AND C159 AND C177	E.1/62 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	No								

3GPP TS 31.124 version 14.3.0 Release 14

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – foregroun d and backgroun d colours	Rel-5	3.10			C110 ANDC1 64 AND C165 AND C177	C110 ANDC16 4 AND C165 AND C177	C110 ANDC16 4 AND C165 AND C177	C110 AND C164 AND C165 AND C177	E.1/62 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	No								
	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	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	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	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		
28	SEND DTMF 27.22 .4.24																		
	Normal	R99	1.1	C180	C180	C180	C180	C180	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	E.1/66 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

	scripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
not i spec		R99	1.4	C180	C180	C180	C180	C180	C180 AND C183	E.1/66	UMTS System Simulator or System Simulator only								
	ns – sic 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	E.1/66 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
Icon colo icon		R99	2.2	C171 AND C180	C171 AND C180	C171 AND C180	C171 AND C180	C171 AND C180	C171 AND C180 AND C183	E.1/66 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
UCS disp Cyri	olay in	R99	3.1	C118 AND C180	C118 AND C180	C118 AND C180	C118 AND C180	C118 AND C180	C118 AND C180 AND C183	E.1/66 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
left	ibute –	Rel-5	4.1			C153 AND C180	C153 AND C180	C153 AND C180	C153 AND C180 AND C183	E.1/66 AND E.1/124 AND E.1/217 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
cent	ibute –	Rel-5	4.2			C154 AND C180	C154 AND C180	C154 AND C180	C154 AND C180 AND C183	E.1/66 AND E.1/124 AND E.1/218 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
right	ibute –	Rel-5	4.3			C155 AND C180	C155 AND C180	C155 AND C180	C155 AND C180 AND C183	E.1/66 AND E.1/124 AND E.1/219 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – large font size	Rel-5	4.4			C157A ND C156 AND C180	C157AN D C156 AND C180	C157AN D C156 AND C180	C157 AND C156 AND C180 AND C183	E.1/66 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	Text attribute – small font size	Rel-5	4.5			C158A ND C156 AND C180	C158AN D C156 AND C180	C158AN D C156 AND C180	C158 AND C156 AND C180 AND C183	E.1/66 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	Text attribute – bold on	Rel-5	4.6			C160 AND C159 AND C180	C160 AND C159 AND C180	C160 AND C159 AND C180	C160 AND C159 AND C180 AND C183	E.1/66 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	Text attribute – italic on	Rel-5	4.7			C161 AND C159 AND C180	C161 AND C159 AND C180	C161 AND C159 AND C180	C161 AND C159 AND C180 AND C183	E.1/66 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	Text attribute – underline on	Rel-5	4.8			C162 AND C159 AND C180	C162 AND C159 AND C180	C162 AND C159 AND C180	C162 AND C159 AND C180 AND C183	E.1/66 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rei-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – strikethrou gh on	Rel-5	4.9			C163 AND C159 AND C180	C163 AND C159 AND C180	C163 AND C159 AND C180	C163 AND C159 AND C180 AND C183	E.1/66 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	Text attribute – foregroun d and backgroun d colours	Rel-5	4.10			C164 AND C165 AND C180	C164 AND C165 AND C180	C164 AND C165 AND C180	C164 AND C165 AND C180 AND C183	E.1/66 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	UCS2 display in Chinese	R99	5.1			C143 AND C180	C143 AND C180	C143 AND C180	C143 AND C180 AND C183	E.1/66 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	UCS2 display in Katakana	R99	6.1			C145 AND C180	C145 AND C180	C145 AND C180	C145 AND C180 AND C183	E.1/66 AND E.1/15 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	Frames	Rel-6	TBD													E.1/66 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
29	LANGUA GE NOTIFIC ATION 27.22																		
	Specific language notificatio	R99	1.1	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	E.1/70	No		
	Non specific language notificatio n	R99	1.2	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	C181 AND C218	E.1/70	No		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
30	LAUNCH BROWSE R 27.22																		
	No session already launched: Connect to the default URL	R99	1.1	C111 AND C177 AND C178 AND C213	E.1/71 AND E.1/110 AND E.1/111	Yes													
	connect to the specified URL, alpha identifier length=0	R99	1.2	C111 AND C177 AND C178	E.1/71 AND E.1/110 AND E.1/111	Yes													
	Browser identity, no alpha identifier	R99	1.3	C111 AND C177 AND C178	E.1/71 AND E.1/110 AND E.1/111	Yes													
	one bearer specified and gateway/p roxy identity	R99	1.4	C122 AND C177 AND C178	E.1/71 AND E.1/98 AND E.1/110 AND E.1/111	Yes													
	void ME does not support Launch Browser with Default URL	R99 R99	1.5 1.6	Void C111 AND C177 AND C178 AND C214	void E.1/71 AND E.1/110 AND E.1/111	Yes													
	Interaction with current session	R99	2.1, 2.2, 2.3	C111 AND C177 AND C178	E.1/71 AND E.1/110 AND E.1/111	Yes													

em	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	UCS2 display in Cyrillic	R99	3.1	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	C111 AND C118 AND C177 AND C178	E.1/71 AND E.1/15 AND E.1/110 AND E.1/111	Yes		Cici
	Icons – basic icon	R99	4.1, 4.2	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	C115 AND C177 AND C178	E.1/71 AND E.1/110 AND E.1/111	Yes		
	Text attribute – left alignment	Rel-5	5.1			C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	C111 AND C153 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	Yes		
	Text attribute – center alignment	Rel-5	5.2			C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	C111 AND C154 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	Yes		
	Text attribute – right alignment	Rel-5	5.3			C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	C111 AND C155 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	Yes		
	Text attribute – large font size	Rel-5	5.4			C111 AND C157A ND C156 AND C177 AND C178	C111 AND C157AN D C156 AND C177 AND C178	C111 AND C157AN D C156 AND C177 AND C178	C111 AND C157 AND C156 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	Yes								

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – small font size	Rel-5	5.5			C111 AND C158A ND C156 AND C177 AND C178	C111 AND C158AN D C156 AND C177 AND C178	C111 AND C158AN D C156 AND C177 AND C178	C111 AND C158 AND C156 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	Yes								
	Text attribute – bold on	Rel-5	5.6			C111 AND C160 AND C159 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	Yes											
	Text attribute – italic on	Rel-5	5.7			C111 AND C161 AND C159 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	Yes											
	Text attribute – underline on	Rel-5	5.8			C111 AND C162 AND C159 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	Yes											

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion
	Text attribute – strikethrou gh on	Rel-5	5.9			C111 AND C163 AND C159 AND C177 AND C178	C111 AND C163 AND C159 AND C177 AND C177	C111 AND C163 AND C159 AND C177 AND C178	C111 AND C163 AND C159 AND C177 AND C178	C111 AND C163 AND C159 AND C177 AND C178	C111 AND C163 AND C159 AND C177 AND C178	C111 AND C163 AND C159 AND C177 AND C178	C111 AND C163 AND C159 AND C177 AND C178	C111 AND C163 AND C159 AND C177 AND C177	C111 AND C163 AND C159 AND C177 AND C177	E.1/71 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	Yes		param eter
	Text attribute – foregroun d and backgroun d colours	Rel-5	5.10			C111 AND C164 AND C165 AND C177 AND C178	E.1/71 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND E.1/111	Yes											
	UCS2 display in Chinese	R99	6.1			C111 AND C143 AND C177 AND C178	E.1/71 AND E.1/15 AND E.1/110 AND E.1/111	Yes											
	UCS2 display in Katakana	R99	7.1			C111 AND C145 AND C177 AND C178	E.1/71 AND E.1/15 AND E.1/110 AND E.1/111	Yes											
	Frames	Rel-6	TBD													E.1/71 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
31	OPEN CHANNE L 27.22																		
	void void	R99 R99	void 2.1	void void	void void	void void	void void	void void	void void	void void	void void	void void	void void	void void	void void	void void			

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	immediate link establish ment GPRS, no alpha identifier, with network access name	R99	2.2	C121	C121	C121	C121	C121	C121 AND C183	E.1/89 AND E.1/98	UMTS System Simulator or System Simulator only		AERO 06						
	immediate link establish ment, GPRS, with alpha identifier	R99	2.3	C121	C121	C121	C121	C121	C121 AND C183	E.1/89 AND E.1/98 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002, AER0 05						
	immediate link establish ment, GPRS, with null alpha identifier	R99	2.4	C121	C121	C121	C121	C121	C121 AND C183	E.1/89 AND E.1/98	UMTS System Simulator or System Simulator only		TCEP 001						
	immediate link establish ment, GPRS, command performed with modificati ons (buffer size)	R99	2.5	C152	C152	C152	C152	C152	C152 AND C183	E.1/89 AND E.1/98	UMTS System Simulator or System Simulator only								
	void	void	2.6	Void	void	void	void	void	Void	Void	Void	Void	Void	Void	Void	void	1		<b>†</b>
	immediate link establish ment, GPRS, open command with alpha identifier, User did not accept the proactive command	R99	2.7	C169 AND C177	C169 AND C177	C169 AND C177	C169 AND C177	C169 AND C177	C169 AND C183 AND C177	E.1/89 AND E.1/98 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002, AER0 07						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	void OPEN CHANNE L, immediate link establish ment, no alpha identifier, with network access	void R99	2.8	Void	void	void	void	void	Void	Void C191 AND C183	Void C191 AND C183	Void C191 AND C183	Void C191 AND C183	Void C191 AND C183	Void C191 AND C183	void E.1/89 AND E.1/98 AND E.1/129 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		
	name  Multi OPEN CHANNE L, one in TCP Server mode and one in TCP Client mode.	Rel-7	2.10							C192 AND C183	C192 AND C183	C192 AND C183	C192 AND C183	C192 AND C183	C192 AND C183	E.1/89 AND E.1/98 AND E.1/129 AND E.1/131	UMTS System Simulator or System Simulator only		
	OPEN CHANNE L, Default Bearer, GPRS, with null alpha identifier)	R99	3.1	C191	C191	C191	C191	C191	C191 AND C183	E.1/89 AND E.1/98 AND C129	UMTS System Simulator or System Simulator only		TCEP 001						
	Local Bearer	Rel-4	TBD													E.1/89 AND E.1/98 AND C132	TBD		
	Text attribute – left alignment	Rel-5	5.1			C121 AND C153	C121 AND C153	C121 AND C153	C121 AND C153 AND C183	E.1/89 AND E.1/98 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – center alignment	Rel-5	5.2			C121 AND C154	C121 AND C154	C121 AND C154	C121 AND C154 AND C183	E.1/89 AND E.1/98 AND E.1/124 AND E.1/218 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002						
	Text attribute – right alignment	Rel-5	5.3			C121 AND C155	C121 AND C155	C121 AND C155	C121 AND C155 AND C183	E.1/89 AND E.1/98 AND E.1/124 AND E.1/219 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002						
	Text attribute – large font size	Rel-5	5.4			C121 AND C157A ND C156	C121 AND C157AN D C156	C121 AND C157AN D C156	C121 AND C157 AND C156 AND C183	E.1/89 AND E.1/98 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002						
	Text attribute – small font size	Rel-5	5.5			C121 AND C158A ND C156	C121 AND C158AN D C156	C121 AND C158AN D C156	C121 AND C158 AND C156 AND C183	E.1/89 AND E.1/98 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002						

em	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – bold on	Rel-5	5.6			C121 AND C160 AND C159	C121 AND C160 AND C159	C121 AND C160 AND C159	C121 AND C160 AND C159 AND C183	E.1/89 AND E.1/98 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002						
	Text attribute – italic on	Rel-5	5.7			C121 AND C161 AND C159	C121 AND C161 AND C159	C121 AND C161 AND C159	C121 AND C161 AND C159 AND C183	E.1/89 AND E.1/98 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002						
	Text attribute – underline on	Rel-5	5.8			C121 AND C162 AND C159	C121 AND C162 AND C159	C121 AND C162 AND C159	C121 AND C162 AND C159 AND C183	E.1/89 AND E.1/98 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002						
	Text attribute – strikethrou gh on	Rel-5	5.9			C121 AND C163 AND C159	C121 AND C163 AND C159	C121 AND C163 AND C159	C121 AND C163 AND C159 AND C183	E.1/89 AND E.1/98 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – foregroun d and backgroun d colours	Rel-5	5.10			C121 AND C164 AND C165	C121 AND C164 AND C165	C121 AND C164 AND C165	C121 AND C164 AND C165 AND C183	E.1/89 AND E.1/98 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/110 AND	UMTS System Simulator or System Simulator only		TCEP 001, TCEP 002						
	Frames	Rel-6	TBD													E.1/89 AND E.1/98 AND E.1/177 AND E.1/178 AND E.1/110 AND E.1/111	TBD		
	Immediate link establish ment, E- UTRAN, bearer type '02'	Rel-8	6.1						C182	C182	C182	C182	C182	C224	C224	E.1/89 AND E.1/135	E-USS or NB-SS (See NOTE)		
	Immediate link establish ment, E- UTRAN, bearer type '0B'	Rel-8	6.2						C182	E.1/89 AND E.1/135	E-USS only								
	Immediate link establish ment, E-UTRAN, bearer type '02', with Network Access Name, with alpha identifier	Rel-8	6.3						C182	C182	C182	C182	C182	C224	C224	E.1/89 AND E.1/110 AND E.1/111 AND E.1/135	E-USS or NB-SS (See NOTE)		TCEP 001, TCEP 002

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Immediate link establish ment, 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	C182 AND C177	C223 AND C177	C223 AND C177	E.1/89 AND E.1/110 AND E.1/111 AND E.1/135	E-USS or NB-SS (See NOTE)		
	Immediate link establish ment, E- UTRAN, bearer type '03', default EPS bearer	Rel-8	6.5						C182	C182	C182	C182	C182	C223	C223	E.1/89 AND E.1/135	E-USS or NB-SS (See NOTE)		
	OPEN CHANNE L for IMS, IARI list stored on the USIM	Rel-10	7.1								C207	C207	C207	C207	C207	E.1/33 AND E.1/89 AND E.1/247 AND E.1/249	UMTS System Simulator OR E-USS		
32	CLOSE CHANNE L 27.22																		
	successful	R99	1.1	C121	C121	C121	C121	C121	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	E.1/89 AND E.1/90	UMTS System Simulator or System Simulator only								

Descript on	i 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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
on an already closed channel	R99	1.3	C121	C121	C121	C121	C121	C121 AND C183	E.1/90	UMTS System Simulator or System Simulator only								
Text attribute - left alignmen		2.1			C121 AND C153	C121 AND C153	C121 AND C153	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		TCEP 001						
Text attribute - center alignmen		2.2			C121 AND C154	C121 AND C154	C121 AND C154	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		TCEP 001						
Text attribute - right alignmen		2.3			C121 AND C155	C121 AND C155	C121 AND C155	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		TCEP 001						
Text attribute - large font size		2.4			C121 AND C157A ND C156	C121 AND C157AN D C156	C121 AND C157AN D C156	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		TCEP 001						

em	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – small font size	Rel-5	2.5			C121 AND C158A ND C156	C121 AND C158AN D C156	C121 AND C158AN D C156	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		TCEP 001						
	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 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.1/216	UMTS System Simulator or System Simulator only		TCEP 001						
	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 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.1/217	UMTS System Simulator or System Simulator only		TCEP 001						
	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	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		TCEP 001						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – strikethrou gh 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	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		TCEP 001						
	Text attribute – foregroun d and backgroun d 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	E.1/89 AND E.1/90 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/211	UMTS System Simulator or System Simulator only		TCEP 001						
	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	C182	C224	C224	E.1/89 AND E.1/90	E-USS or NB-SS (See NOTE)		
	EPS bearer with APN different from default APN, successful	Rel-8	3.2						C182	C182	C182	C182	C182	C224	C224	E.1/89 AND E.1/90	E-USS or NB-SS (See NOTE)		TCEP 001, TCEP 002
33	RECEIVE DATA 27.22 .4.29																		
	already opened channel	R99	1.1	C121	C121	C121	C121	C121	C121 AND C183	E.1/89 AND E.1/91 AND E.1/92	UMTS System Simulator or System Simulator only		AER0 08						

ltem	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – left alignment	Rel-5	2.1			C121 AND C153	C121 AND C153	C121 AND C153	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		TCEP 001						
	Text attribute – center alignment	Rel-5	2.2			C121 AND C154	C121 AND C154	C121 AND C154	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		TCEP 001						
	Text attribute – right alignment	Rel-5	2.3			C121 AND C155	C121 AND C155	C121 AND C155	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		TCEP 001						
	Text attribute – large font size	Rel-5	2.4			C121 AND C157A ND C156	C121 AND C157AN D C156	C121 AND C157AN D C156	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		TCEP 001						
	Text attribute – small font size	Rel-5	2.5			C121 AND C158A ND C156	C121 AND C158AN D C156	C121 AND C158AN D C156	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		TCEP 001						

em	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	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 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.1/210	UMTS System Simulator or System Simulator only		TCEP 001						
	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 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.1/210	UMTS System Simulator or System Simulator only		TCEP 001						
	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	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		TCEP 001						
	Text attribute – strikethrou gh 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	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		TCEP 001						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute— foregroun d and backgroun d 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	E.1/89 AND E.1/91 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/211	UMTS System Simulator or System Simulator only		TCEP 001						
	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	C182	C224	C224	E.1/89 AND E.1/91 AND E.1/92	E-USS or NB-SS (See NOTE)		
34	SEND DATA 27.22 .4.30																		
	immediate mode	R99	1.1	C121	C121	C121	C121	C121	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	E.1/89 AND E.1/92	UMTS System Simulator or System Simulator only								
	Store mode, Tx buffer fully used	R99	1.3	C121	C121	C121	C121	C121	C121 AND C183	E.1/89 AND E.1/92	UMTS System Simulator or System Simulator only								

tem	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	2 consecuti ve SEND DATA Store mode	R99	1.4	C121	C121	C121	C121	C121	C121 AND C183	E.1/89 AND E.1/92	UMTS System Simulator or System Simulator only		etei						
	immediate mode with a bad channel identifier	R99	1.5	C121	C121	C121	C121	C121	C121 AND C183	E.1/89 AND E.1/92	UMTS System Simulator or System Simulator only								
	void Text attribute– left alignment	Rel-5	2.1			C121 AND C153	C121 AND C153	C121 AND C153	C121 AND C153 AND C183	E.1/89 AND E.1/92 AND E.1/124 AND E.1/217 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	Text attribute – center alignment	Rel-5	2.2			C121 AND C154	C121 AND C154	C121 AND C154	C121 AND C154 AND C183	E.1/89 AND E.1/92 AND E.1/124 AND E.1/218 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	Text attribute – right alignment	Rel-5	2.3			C121 AND C155	C121 AND C155	C121 AND C155	C121 AND C155 AND C183	E.1/89 AND E.1/92 AND E.1/124 AND E.1/219 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	Text attribute – large font size	Rel-5	2.4			C121 AND C157A ND C156	C121 AND C157AN D C156	C121 AND C157AN D C156	C121 AND C157 AND C156 AND C183	E.1/89 AND E.1/92 AND E.1/124 AND E.1/221 AND E.1/220 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

em	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – small font size	Rel-5	2.5			C121 AND C158A ND C156	C121 AND C158AN D C156	C121 AND C158AN D C156	C121 AND C158 AND C156 AND C183	E.1/89 AND E.1/92 AND E.1/124 AND E.1/222 AND E.1/220 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	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 C160 AND C159 AND C183	E.1/89 AND E.1/92 AND E.1/124 AND E.1/225 AND E.1/226 AND E.1/216	UMTS System Simulator or System Simulator only		TCEP 001						
	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 C161 AND C159 AND C183	E.1/89 AND E.1/92 AND E.1/124 AND E.1/225 AND E.1/227 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	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	E.1/89 AND E.1/92 AND E.1/124 AND E.1/225 AND E.1/228 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Text attribute – strikethrou gh 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	E.1/89 AND E.1/92 AND E.1/124 AND E.1/225 AND E.1/229 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001						
	Text attribute– foregroun d and backgroun d 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	E.1/89 AND E.1/92 AND E.1/124 AND E.1/230 AND E.1/231 AND E.1/211	UMTS System Simulator or System Simulator only		TCEP 001						
	Frames	Rel-6	TBD													E.1/89 AND E.1/92 AND E.1/177 AND E.1/178 AND E.1/110	TBD		
	Immediate mode – E- UTRAN, Default EPS bearer	Rel-8	3.1						C182	C182	C182	C182	C182	C223	C223	E.1/89 AND E.1/92	E-USS or NB-SS (See NOTE)		
	Store mode – E- UTRAN, APN different from default APN	Rel-8	3.2						C182	C182	C182	C182	C182	C224	C224	E.1/89 AND E.1/92	E-USS or NB-SS (See NOTE)		
35	GET CHANNE L STATUS 27.22																		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	without any BIP channel opened	R99	1.1	C121	C121	C121	C121	C121	C121 AND C183	E.1/93	UMTS System Simulator or System Simulator only								
	with a BIP channel currently opened	R99	1.2	C121	C121	C121	C121	C121	C121 AND C183	E.1/89 AND E.1/93	UMTS System Simulator or System Simulator only								
	after a link dropped	R99	1.3	C121	C121	C121	C121	C121	C121 AND C183	E.1/89 AND E.1/93	UMTS System Simulator or System Simulator only								
	EPS bearer with APN different from default APN	Rel-8	1.4						C182	C182	C182	C182	C182	C224	C224	E.1/89 AND E.1/93	E-USS or NB-SS (See NOTE)		
	EPS bearer with APN different from default APN, after a link dropped	Rel-8	1.5						C182	C182	C182	C182	C182	C224	C224	E.1/89 AND E.1/93	E-USS or NB-SS (See NOTE)		
36	DATA DOWNLO AD TO UICC 27.22																		
37	SMS-PP DATA DOWNLO AD 27.22 .5.1																		
	void		1.1 - 1.8																1

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	SMS-PP Data Download over CS, UTRAN/G ERAN	R99	1.9	C211	C211	C211	C211	C211	C212	C212	C212	C212	C212	C212	C212	E.1/2	UMTS System Simulator or System Simulator		TCEP 001
38	CELL BROADC AST DATA DOWNLO AD 27.22																		
	Cell Broadcast (GSM) - ME does not display message	R99	1.1	C201	C201	C201	C201	C201	C201	C201	C201	C201	C201	C201	C201	E.1/3	System Simulator only		
	void		1.2																
	Cell Broadcast (GSM) - ME displays message	R99	1.3	C201 AND C177	C201A ND C177	C201A ND C177	C201AN D C177	C201AND C177	E.1/3 AND E.1/110	System Simulator only									
	Cell Broadcast (UTRAN) - ME does not display message	Rel-5	1.4													E.1/3	UMTS System Simulator only		
	Cell Broadcast (UTRAN) -More time	Rel-5	1.5													E.1/3 AND E.1/20	UMTS System Simulator only		
	Cell Broadcast (UTRAN) - ME displays message	Rel-5	1.6													E.1/3	UMTS System Simulator only		
	Cell Broadcast (GSM) - More time (UDH)	R99	1.7	C201	C201	C201	C201	C201	C201	C201	C201	C201	C201	C201	C201	E.1/3 AND E.1/20	System Simulator only		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
38A	SMS-PP DATA DOWNLO AD 27.22																		Cici
	SMS-PP Data Download over IMS, E-UTRAN	Rel-8	3.1						C198	E.1/2	E-USS only		TCEP 001						
	SMS-PP Data Download over IMS, UTRAN	Rel-7	3.2					C199	C199	C199	C199	C199	C199	C199	C199	E.1/2	UMTS System Simulator only		TCEP 001
38B	SMS-PP DATA DOWNLO AD over SGs in E- UTRAN 27.22																		
	.5.4 SMS-PP Data Download over SGs, E-UTRAN	Rel-8	4.1						C205	C205	C205	C205	C205	C221	C221	E.1/2	E-USS or NB-SS (See NOTE)		TCEP 001
39	CALL CONTRO L BY USIM 27.22																		
	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 AND C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/64	UMTS System Simulator or System Simulator only								

	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
fo io e	Procedure or MO calls (Cell dentity in envelope call control)	R99	1.3 A, 1.5 A, 1.7 A	C140 AND C177 AND C178 AND C180	C140 AND C177 AND C178 AND C180	C140 AND C177 AND C178 AND C180	C140 AND C177 AND C178 AND C180	C140 AND C177 AND C178 AND C180	C140 AND C177 AND C178 AND C180 AND C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/64 AND E.1/110 AND	UMTS System Simulator or System Simulator only		eter						
fo io e o	Procedure or MO calls (Cell dentity in envelope call control)	R99	1.3 B, 1.7 B	C141 AND C177 AND C178 AND C180	C141 AND C177 AND C178 AND C180	C141 AND C177 AND C178 AND C180	C141 AND C177 AND C178 AND C180	C141 AND C177 AND C178 AND C180	C141 AND C177 AND C178 AND C180 AND C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/64 AND E.1/110 AND E.1/111	UMTS System Simulator or System Simulator only								
fo id e c	Procedure or MO calls (Cell dentity in envelope call control)	R99	1.5 B	C141 AND C180	C141 AND C180	C141 AND C180	C141 AND C180	C141 AND C180	C141 AND C180 AND C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/29 AND E.1/64	UMTS System Simulator or System Simulator only								
fo (id e c	Procedure or SS Cell dentity in envelope call control)	R99	2.1, 2.2, 2.3, 2.4	C174	C174	C174	C174	C174	C174 AND C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	UMTS System Simulator or System Simulator only								

tem	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Interaction with FDN (Cell identity in envelope call control)	R99	3.1, 3.2, 3.3, 3.4, 3.5	C146 AND C180	C146 AND C180	C146 AND C180	C146 AND C180	C146 AND C180	C146 AND C180 AND C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	UMTS System Simulator or System Simulator only								
	BDN service enabled	R99	4.1	C147 AND C177 AND C178 AND C180	C147 AND C177 AND C178 AND C180	C147 AND C177 AND C178 AND C180	C147 AND C177 AND C178 AND C180	C147 AND C177 AND C178 AND C180	C147 AND C177 AND C178 AND C180 AND C183	E.1/7 AND E.1/8 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/110 AND	UMTS System Simulator or System Simulator only								
	BDN service enabled, interaction with emergenc y call codes, R99 only	R99	4.2A	C147 AND C180												E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	UMTS System Simulator or System Simulator only		
	BDN service enabled, interaction with emergenc y call codes, Rel-4+	Rel-4	4.2B		C147 AND C180	C147 AND C180	C147 AND C180	C147 AND C180	C147 AND C180 AND C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 ND E.1/64	UMTS System Simulator or System Simulator only								
	FDN and BDN enabled, set up a call in EFFDN, Allowed with modificati ons	R99	4.3	C146 AND C147 AND C177 AND C180	C146 AND C147 AND C177 AND C180	C146 AND C147 AND C177 AND C180	C146 AND C147 AND C177 AND C180	C146 AND C147 AND C177 AND C180	C146 AND C147 AND C177 AND C180 AND C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/110	UMTS System Simulator or System Simulator only								

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Call control on GPRS	Rel-5	TBD													E.1/98 AND E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13	TBD		
	BDN service enabled, ME not supporting BDN	R99	5.1			C176 AND C180	C176 AND C180	C176 AND C180	C176 AND C180 AND C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	UMTS System Simulator or System Simulator only								
40	EVENT DOWNLO AD 27.22															=			
	27.22.7.1: MT call event	R99	1.1	C180	C180	C180	C180	C180	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	E.1/35 AND E.1/33	UMTS System Simulator or System Simulator only								
	27.22.7.2. 1: call connected event (simultane ous call MT-MO)	R12	1.2										C180 AND C183	C180 AND C183	C180 AND C183		UMTS System Simulator or System Simulator only		
	27.22.7.2. 1: call connected event (simultane ous call MO-MO)	R12	1.3										C180 AND C183	C180 AND C183	C180 AND C183		UMTS System Simulator or System Simulator only		

Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu- tion param eter
27.22.7.2. 1: call connected event (simultane ous call MO-MT)	R12	1.4										C180 AND C183	C180 AND C183	C180 AND C183		UMTS System Simulator or System Simulator only		eter
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 AND C183	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 disconnec ted event	R99	1.1	C180	C180	C180	C180	C180	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	М	М	М	М	М	М	М	М	М	М	М	E.1/37 AND E.1/33	UMTS System Simulator or System Simulator only		AER 02
27.22.7.4: location status event, E- UTRAN	Rel-8	1.2						C190	C190	C190	C190	C190	C222	C222	E.1/37 AND E.1/33 AND E.1/135	E-USS or NB-SS (See NOTE)		
27.22.7.5: user activity event	R99	1.1	C178	C178	C178	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	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	C109	C109	C109	E.1/40 AND E.1/33	No		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	27.22.7.7. 2: Detachabl e card reader	R99	2.1	C116	E.1/40 AND E.1/33	No		<b>.</b>											
	27.22.7.8: language selection event	R99	1.1	C177 AND C178 AND C181 AND C216	E.1/41 AND E.1/33 AND E.1/110 AND E.1/111	No													
	27.22.7.9: Browser terminatio n event	R99	1.1	C193 AND C177 AND C178	E.1/42 AND E.1/33 AND E.1/110 AND E.1/111	Yes													
	27.22.7.1 0: Data available event	R99	1.1	C121	C121	C121	C121	C121	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								
	27.22.7.1 0: Data available event	Rel-8	1.2											C223	C223	E.1/43 AND E.1/89 AND E.1/92 AND E.1/33	E-USS or NB-SS (See NOTE)		
	27.22.7.1 1: Channel status event	R99	1.1	C121	C121	C121	C121	C121	C121 AND C183	E.1/44 AND E.1/89 AND E.1/33	UMTS System Simulator or System Simulator only								
	27.22.7.1 1: Channel status event	Rel-8	1.2											C223	C223	E.1/44 AND E.1/89 AND E.1/33	E-USS or NB-SS (See NOTE)		
	27.22.7.1 2: Access Technolog y change event																		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	Single access technolog y	Rel-8	1.1						C184 AND C190	E.1/45 AND E.1/33	UMTS System Simulator and E- USS		Cici						
	Multiple access technologi es	Rel-8	TBD						C184 AND C190	E.1/45 AND E.1/33 AND E.1/200	TBD								
	27.22.7.1 3: Display parameter changed event	Rel-4	TBD													E.1/46 AND E.1/33	TBD		
	27.22.7.1 4: Local connectio n event	Rel-4	TBD													E.1/47 AND E.1/33	TBD		
	27.22.7.1 5: Network search mode change event	Rel-6	1.1							M	M	M	M	М	М	E.1/48 AND E.1/33	No		
	27.22.7.1 6: Browsing status event	Rel-6	TBD													E.1/193 AND E.1/33	TBD		
	27.22.7.1 7: Network Rejection Event, ATTACH REJECT	Rel-8	1.1						C190	C190	C190	C190	C190	C222	C222	E.1/33 AND E.197	E-USS only or NB-SS (See NOTE)		
	27.22.7.1 7: Network Rejection Event, TRACKIN G AREA UPDATE REJECT	Rel-8	1.2						C190	C190	C190	C190	C190	C222	C222	E.1/33 AND E.197	E-USS or NB-SS (See NOTE)		
	Frame informatio n changed event	Rel-6	TBD													E.1/195 AND E.1/177 AND E.1/178	TBD		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	27.22.7.1 8: CSG cell Selection	Rel-9	1.1							C200	C200	C200	C200	C200	C200	E.1/201	E-USS only		etei
	27.22.7.1 9: IMS registratio n event (Refer to 27.22.4.2 7.7 and 27.22.7.2 0)	Rel-10	-													-	-		
	27.22.7.2 0: Incoming IMS data, IMS Registrati on and Data available event, IARI list stored on the ISIM	Rel-10	1.1								C208	C208	C208	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.1.247	UMTS System Simulator OR E-USS		
41	MO SMS Control by USIM 27.22.8																		
	With proactive command, Allowed , no modificati on	R99	1.1	M	M	M	M	M	C183	C183	C183	C183	C183	C183	C183	E1/12 AND E.1/26 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
	With user SMS, Allowed , no modificati on	R99	1.2	М	М	М	М	М	C183	C183	C183	C183	C183	C183	C183	E1/12	UMTS System Simulator or System Simulator only		
	With proactive command, Not allowed	R99	1.3	М	М	М	М	М	C183	C183	C183	C183	C183	C183	C183	E1/12 AND E.1/26 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	With user SMS, Not allowed	R99	1.4	M	М	М	М	М	C183	C183	C183	C183	C183	C183	C183	E1/12	UMTS System Simulator or System Simulator only		
	With proactive command, Allowed, with modificati ons	R99	1.5	M	М	М	М	М	C183	C183	C183	C183	C183	C183	C183	E1/12 AND E.1/26 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
	With user SMS, Allowed, with modificati ons	R99	1.6	M	M	М	М	M	C183	C183	C183	C183	C183	C183	C183	E1/12	UMTS System Simulator or System Simulator only		
	With Proactive command, the USIM responds with '90 00', Allowed, no modificati on	R99	1.7	М	М	М	М	М	C183	C183	C183	C183	C183	C183	C183	E1/12 AND E.1/26 AND E.1/110	UMTS System Simulator or System Simulator only		TCEP 001
	Send Short Message attempt by user, the USIM responds with '90 00', Allowed, no modificati on	R99	1.8	M	M	М	М	М	C183	C183	C183	C183	C183	C183	C183	E1/12	UMTS System Simulator or System Simulator only		
	Void		1.9																1

tem	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	MO SM CONTRO L BY USIM over SG in E- UTRAN, with Proactive command, Allowed, no modifficati on	Rel-8	1.10											C221	C221	E1/12 AND E.1/26 AND E.1/110	E-USS or NB-SS (See NOTE)		TCEP 001
	MO SM CONTRO L BY USIM over SG in E- UTRAN, with user SMS, Allowed, no modificati on	Rel-8	1.11											C221	C221	E1/12	E-USS or NB-SS (See NOTE)		
	MO SM CONTRO L BY USIM over SG in E- UTRAN, with Proactive command, Not allowed	Rel-8	1.12											C221	C221	E1/12 AND E.1/26 AND E.1/110	E-USS or NB-SS (See NOTE)		TCEP 001
	MO SM CONTRO L BY USIM over SG in E- UTRAN, with user SMS, Not allowed	Rel-8	1.13											C221	C221	E1/12	E-USS or NB-SS (See NOTE)		

Item	Descripti on	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	Rei-11 ME	Rei-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Dependen	Sup - port	Additi onal test case execu tion param eter
	MO SM CONTRO L BY USIM over SG in E- UTRAN, with Proactive command, Allowed with modificati ons'	Rel-8	1.14											C221	C221	E1/12 AND E.1/26 AND E.1/110	E-USS or NB-SS (See NOTE)		TCEP 001
	MO SM CONTRO L BY USIM over SG in E- UTRAN, with user SMS, Allowed with modificati ons	Rel-8	1.15											C221	C221	E1/12	E-USS or NB-SS (See NOTE)		
	MO SM CONTRO L BY USIM over SG in E- UTRAN, with Proactive command, the USIM responds with '90 00', Allowed, no modificati on	Rel-8	1.16											C221	C221	E1/12 AND E.1/26 AND E.1/110	E-USS or NB-SS (See NOTE)		TCEP 001

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion
	MO SM CONTRO L BY USIM over SG in E- UTRAN, Send Short Message attempt by user, the USIM responds with '90 00', Allowed, no	Rel-8	1.17											C221	C221	E1/12	E-USS or NB-SS (See NOTE)		param eter
42	modificati on SERVICE	Rel-4	TBD													E.1/94	TBD		
43	SEARCH GET SERVICE INFORMA	Rel-4	TBD													E.1/95	TBD		
44	TION DECLAR E	Rel-4	TBD													E.1/96	TBD		
45	SERVICE RETRIEV E MULTIME DIA MESSAG	Rel-6	TBD													E.1/173	TBD		
46	SUBMIT MULTIME DIA MESSAG	Rel-6	TBD													E.1/173	TBD		
47	DISPLAY MULTIME DIA MESSAG	Rel-6	TBD													E.1/173	TBD		
48	SET FRAMES	Rel-6	TBD													E.1/177 AND E.1/178	TBD		
49	GET FRAME STATUS	Rel-6	TBD													E.1/178 E.1/178 AND E.1/177	TBD		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Dependen	Sup - port	Additi onal test case execu tion param eter
50	Handling of comman d number 27.22.9																		Citor
	DISPLAY TEXT normal priority	R99	1.1	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	C177	E.1/17 AND E.1/110	No		
51	Call Control on EPS PDN connecti on 27.22.10																		
	CALL CONTRO L on EPS PDN for E-UTRAN – default PDN connectio n activation, allowed without modificati on	Rel-8	1.1												C222	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	E-USS or NB-SS (See NOTE)		
	CALL CONTRO L on EPS PDN for E-UTRAN – default PDN connectio n activation, not allowed	Rel-8	1.2												C222	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	E-USS or NB-SS (See NOTE)		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	CALL CONTRO L on EPS PDN for E-UTRAN – default PDN connectio n activation, allowed with modificati on	Rel-8	1.3												C222	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	E-USS or NB-SS (See NOTE)		
	CALL CONTRO L on EPS PDN for E-UTRAN - PDN connectio n triggered by user, UICC sends 90 00	Rel-8	1.4												C190	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	E-USS only		
	CALL CONTRO L on EPS PDN for E-UTRAN - PDN connectio n triggered by user, UICC sends 93	Rel-8	1.5												C190	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	E-USS only		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Dependen	Sup - port	Additi onal test case execu tion param eter
	CALL CONTRO L on EPS PDN for E-UTRAN - PDN connectio n triggered by user, allowed with modificati on	Rel-8	1.6												C190	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64	E-USS only		
	CALL CONTRO L on EPS PDN - PDN connectio n activation from OPEN CHANNE L command	Rel-8	1.7												C182	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	E-USS only		
52	Call Control on PDP Context Activation 27.22.11																		
	CALL CONTRO L on PDP Context Activation – default PDP connectio n activation, allowed without modificati on	R99	1.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	UMTS System Simulator or System Simulator only		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	port	Additi onal test case execu tion param eter
	CALL CONTRO L on PDP Context Activation - default PDP connectio n activation, not allowed	R99	1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	UMTS System Simulator or System Simulator only		
	CALL CONTRO L on PDP Context Activation – default PDP connectio n activation, allowed with modificati on	R99	1.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	UMTS System Simulator or System Simulator only		
	CALL CONTRO L on PDP Context Activation PDP connectio n triggered by user, UICC sends 90	R99	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	UMTS System Simulator or System Simulator only		
	CALL CONTRO L on PDP Context Activation PDP connectio n triggered by user, UICC sends 93	R99	1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	UMTS System Simulator or System Simulator only		

Item	Descripti on	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	Rel-12 ME	Rel-13 ME	Rel-14 ME	Terminal Profile	Network Dependen cy	Sup - port	Additi onal test case execu tion param eter
	CALL CONTRO L on PDP Context Activation – PDP connectio n triggered by user, allowed with modificati on	R99	1.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	UMTS System Simulator or System Simulator only		
	CALL CONTRO L on PDP Context Activation - PDP connectio n activation from OPEN CHANNE L command	R99	1.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	C191 AND C183	E.1/7 AND E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND E.1/142	UMTS System Simulator or System Simulator only		

NOTE: For Rel -13 if the UE supports NB-IoT, this test case shall be verified by accessing the NB System Simulator (NB-SS).

C101	IF A.1/1 THEN M ELSE N/A	O Cap Conf
C102	void	0_0up_00iii
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
C100	IF A.1/5 THEN M ELSE N/A	O_EXESTI
C108	IF A.1/6 THEN O.1 ELSE N/A	O Icons
C108	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_Bua_Siot
C110	IF (A.1/19 AND A.1/140 THEN M ELSE N/A  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	O_Soit_key
C114	IF C110 AND C108 THEN O.1 ELSE N/A	O_Run_At AND O_+CIMI AND O_Icons
C115	IF C110 AND C106 THEN O.T ELSE N/A  IF C111 AND C108 THEN M ELSE N/A	O_RUIT_ALAND O_+CIWILAND O_ICOIIS O_LB AND O_Icons
C116	IF A.1/7 AND A.1/8 THEN M ELSE N/A	O_LB AND O_ICORS O_Dual_Slot AND O_Detach_Rdr
C116		O_Duai_Siot AND O_Detach_Rdr
C117	Void	O Head Dian AND O HOCK Conillia
	IF A.1/15 AND A.1/41 THEN M ELSE N/A	O_Ucs2_Disp AND O_UCS2_Cyrillic O Redial
C119 C120	IF A.1/19 THEN M ELSE N/A	
	IF A.1/20 THEN M ELSE N/A	O_D_NoResp
C121 C122	IF A.1/21 AND A.1/17 THEN M ELSE N/A	O_BIP_GPRS AND O_UDP
	IF C111 AND A.1/16 THEN M ELSE N/A	O_LB AND O_GPRS
C123	void	0.00.01.11
C124	IF A.1/22, test x.A M ELSE x.B M (where x is the expected	O_CP_Subaddr
C125	sequence number value)  IF A.1/23 THEN M ELSE N/A	O Imma Door
		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	0.000
C132	IF A.1/27 THEN M ELSE N/A	O_BIP_Local
C133	void	O MMC
C134	IF A.1/38 THEN M ELSE N/A	O_MMS
C135	void	
C136	void	
C137	void	
C138	void	
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_Disp 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 Disp AND O Ucs2
0143	II OTTO THE OTTO THE OTTO THE OTTO	Cyrillic
C150	IF C148 AND C143 THEN M ELSE N/A	O_Run_At AND O_+CGMI AND O_ O_Ucs2_Disp AND O_Ucs2_
0.00	ii o i io i ii o i i i i i i i i i i i	Chinese
C151	IF C148 AND C145 THEN M ELSE N/A	O Run At AND O +CGMI AND O O Ucs2 Disp 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	O_longFTN
	n.B M	
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	(O_BIP_GPRS AND O_UDP AND
	NOT A.1/68) test x.B M ELSE N/A	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_lcons
C172	IF A.1/6 THEN O.4 ELSE N/A	O_lcons
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)

)_GERAN
/_021011
er
D)
.,
DD)
IMS AND
egistration
egistration
) GERAN
S_MO)
<u>3_IVIO)</u>
O_GERAN
S_MT)
<u>5_1011 / </u>
s_MO
·
C

C221	IF ((A.1/139 OR A.1/140 OR A.1/173) AND A.1/152) THEN M ELSE N/A	(pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT
C222	IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A	pc_eTDD OR pc_eFDD OR pc_NB
C223	IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A	O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB)
C224	IF A.1/18 AND A.1/178 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A	O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB)
O.1	IF A.1/zz tests x.yA M ELSE tests x.yB M (where zz correspon Display Text supports icons as defined in record 1 of EF(IMG))	ds to the option relating to the command being tested (e.g. A.1/90 if and x.y is the expected sequence number value)
0.2		ds to the option relating to the command being tested (e.g. A.1/91 if
O.3	void	
O.4		zz and ww correspond to the option relating to the command being record 1 of EF(IMG) and A.1.92 if Display Text supports icons as ince number value)
TCEP001	IF NOT A.1/84 THEN during the test execution, the display or t treated as successfully verified.	the non-display of any alpha identifier, text string or icon shall be
TCEP002	IF NOT A.1/85 THEN the terminal may open the channel without	out 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 R(27.22.7.4 Seq. 1.1) ELSE A	(pc_ BIP_eFDD OR pc_BIP_eTDD) AND (O_UTRAN OR 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 "±".

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 "≥".

The sign "less than or equal to" is expressed by "≤".

### 4 Test equipment

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

# 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 NB-SS/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 NB System Simulator when accessing an E-UTRAN in NB-S1 mode, an Evolved Universal System Simulator when accessing an E-UTRAN in WB-S1 mode, a Universal System Simulator when accessing a UTRAN, and if theses 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		С
2	GET INKEY: No response from user Timeout interval		С
3	GET INPUT: No response from user Timeout interval		С
4	SELECT ITEM: No response from user Timeout interval		С
5	DISPLAY TEXT Text Attributes Alignment [Left or Center or Right]		С
6	GET INKEY Text Attributes Alignment [Left or Center or Right]		С
7	GET IMPUT Text Attributes Alignment [Left or Center or Right]		С
8	PLAY TONE Text Attributes Alignment [Left or Center or Right]		С
9	SET UP MENU Text Attributes Alignment [Left or Center or Right]		С
10	SELECT ITEM Text Attributes Alignment [Left or Center or Right]		С
11	SEND SHORT MESSAGE Text Attributes Alignment [Left or Center or Right]		С
12	SEND SS Text Attributes Alignment [Left or Center or Right]		С
13	SEND USSD Text Attributes Alignment [Left or Center or Right]		С
14	SET UP CALL Text Attributes Alignment [Left or Center or Right]		С
15	SET UP IDLE MODE TEXT Text Attributes Alignment [Left or Center or Right]		С
16	RUN AT Text Attributes Alignment [Left or Center or Right]		С
17	SEND DTMF Text Attributes Alignment [Left or Center or Right]		С
18	LAUNCH BROWSER Text Attributes Alignment [Left or Center or Right]		С
19	OPEN CHANNEL Text Attributes Alignment [Left or Center or Right]		С
20	CLOSE CHANNEL Text Attributes Alignment [Left or Center or Right]		С
21	RECEIVE DATA Text Attributes Alignment [Left or Center or Right]		С
22	SEND DATA Text Attributes Alignment [Left or Center or Right]		С
	IMEI		М
24	IMEISV		С
25	[Reserved]		
26	Additional Card Reader Id		С
27	Channel Id		С
	Manufacturer identification as implemented according to TS 27.007, cl. 5.1		С
29	Preferred buffer size supported by the terminal for Open Channel command		С
Note:	Conditional values shall be provided if the corresponding option is supported	in the tabl	e 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 RESPONSE 1.2.2 (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** 

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

- 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**

## 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 in NB-S1 mode the procedures defined in TS 36.508 [33] shall be the basis for all performed procedures during the test. The procedures in subclause 8.1.5 describe the default behaviour of a conformant ME regarding the specified protocols to be used for E-UTRAN in NB-S1 mode and the required procedures from the NAS.

For a ME accessing E-UTRAN in WB-S1 mode 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 in WB-S1 mode and the required procedures from the NAS.

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 - 26Not used

### 27 Testing of the UICC/ME interface

#### 27.0 Introduction

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. Alternatively, USIMs programmed with specific data and USIM Application Toolkit applets may be used. 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

### 27.22.1AGeneral 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.

### 27.22.2ADefinition 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	g numbers availa	ble			
(Service 06)	Barred dialling	ng numbers avail	able			
(Service 10)	Short Messag	ge Storage availa	ble			
(Service 11)	Short Messag	ge Status Reports	s available			
(Service 12)	Short Messag	ge Service Paran	neters available			
(Service 15)	Cell Broadca	st Message Iden	tifier available			
	8) The Group Id	lentifier level 1 a	and level 2 not a	vailable		
(Service 20)	User controll	ed PLMN select	or available			
(Service 22)	Image (IMG)					
(Service 27)	The GSM Ac	cess available				
(Service 28)	Data downloa	ad via SMS-PP a	ıvailable			
(Service 29)		ad via SMS-CB				
(Service 30)	Call Control	by USIM not av	ailable			
(Service 31)		ntrol by USIM r				
(Service 32)	RUN AT CO	MMAND availa	ıble			
(Service 33)	*	ched Domain) sl				
(Service 34)		ices Table availa				
(Service 85)	•	/ Management Ir				
(Service 86)	Allowed CSC	G Lists and corre	sponding indica	tions not availab	le	
Coding:	B1	B2	В3	B4	B5	В6
binary	xx1x xx11	x1xx 111x	xx1x 1x00	1001 11xx	xxx xx11	XXXX XXXX
	B7	B8	B9	B10	B11	

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

XXXX XXXX

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

#### Logically:

(Service 1) Fixed Dialling number deactivated

XXXX XXXX

XXXX XXXX

XXXX XXXX

xxxx 00xx

(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"

В8 В9 Coding: B1 B6 B10 B11 B2 B3 B4 B5 B7 FF FF FF 00 F1 00 01 Hex FF 10 FF 00

#### **EFPSLOCI** (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 ВЗ B4 B5 В6 В7 FF FF FF Hex FF FF FF FF B9 Coding: B8 **B10** B11 B12 B13 **B14** F1 Hex 00 10 00 01 05 00

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

Logically:

Cell Broadcast Message Identifier 1: '03 E7'

Coding	03	<b>E7</b>					İ
Couling.	US						i

#### 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 alp ha identifier: 6 characters;

Alpha identifier: "FDN111";

Length of BCD number: "03";

TON and NPI: Telephony and unknown;

Dialled number: 123; CCI: None; Ext2: None.

Coding for record 1:

В1 B2 ВЗ B4 В5 В6 В7 В8 В9 B10 B11 B13 B12 Hex 44 4E 03 F3 FF 46 31 31 31 81 21 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;

Dialled number: 9876; CCI: None; Ext2: None.

Coding for record 2:

В1 B2 В3 B4 **B**5 B6 В7 В8 В9 B10 B11 B12 B13 Hex 44 4E 32 32 03 81 89 FF FF FF 46 32 67

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; bialled number: +12345678901234567890;

CCI: None; Ext2: None.

Coding for record 3:

Hex	B1 46	B2 44	B3 4E	B4 33			B7 0B	_	B10 43	B12 87	B13 09
	B14 21	B15 43	B16 65	B17 87	B18 09	B19 FF	B20 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;

Dialled number: +1357924680;

CCI: None; Ext4: None Comprehension method pointer: None.

Coding for record 1:

FF

FF

В1 B2 В3 B4 B5 B6 **B7** B8 **B9** B10 B11 **B12 B13** Hex 42 44 91 31 4E 31 31 31 06 75 29 64 80 B14 B15 B16 B17 B18 B19 B20 B21

FF

FF

FF

Record 2: Length of alpha identifier: 6 characters;

FF

Alpha identifier: "BDN222";

Length of BCD number: "03";

FF

TON and NPI: Telephony and Unknown;

FF

Dialled number: 122;
CCI: None;
Ext4: None
Comprehension method pointer: None.

Coding for record 2:

FF

FF

B1 B2 В3 B4 B5 B6 В7 В8 В9 B10 B11 B12 B13 Hex 44 4E 32 32 42 32 04 81 21 F2 FF FF FF B14 B15 B16 B17 **B18 B19** B20 **B21** 

FF

FF

FF

Record 3: Length of alpha identifier: 6 characters;

FF

Alpha identifier: "BDN333"; Length of BCD number: "03";

FF

TON and NPI: Telephony and Unknown;

FF

Dialled number: 112;
CCI: None;
Ext4: None.
Comprehension method pointer: None

Coding for record 3:

Hex	B1 42		_	B4 33	_	_		_	_	B10 F2		B13 FF
	B14 FF	B15 FF	_	B17 FF	_		B20 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: **B**1 B2 В3 B4 **B**5 B6 B7 B8 F2 FF 54 45 00 Hex 21 53 54

#### EF<sub>SMSS</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>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"

Dialled number string: "112233445566778"

Coding:	B1	B2	В3	 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

В	24	B25	B26	B27	B28
F	F	FF	FF	FF	FF

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

# 27.22.2BDefinition 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 execptions:

#### 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	В3	B4	B5	B6
binary	xx1x xx11	x1xx 111x	xx1x 1x00	1001 11xx	xxx xx11	xxxx x
	B7 xxxx xxxx	B8 xxxx xxxx	B9 xxxx xxxx	B10 xxxx xxxx	B11 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: В1 B2 ВЗ B4 B5 В6 B10 B11 B7 B8 В9 Hex: 0B F6 00 F1 10 00 01 02 43 11 66 B12 B15 B16 B13 B14 B17 B18

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 'FF'

integrity and encryption

algorithm

Coding:	B1	B2	В3	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

Byte:	B01	B02
Coding:	80	00

#### 27.22.2C.3.2 EFIST (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

Byte:	B01
Coding:	111x xxx1

### 27.22.2C.3.3 EFIMPI (IMS private user identity)

Logically: 001010123456789@test.3gpp.com

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

### 27.22.2C.3.5 EFIMPU (IMS public user identity)

#### Record 1:

Logically: 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
,	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	31	30	31	32	33	34	35	36	37	38
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	39	40	69	6D	73	2E	6D	6E	63	32
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	34	36	2E	6D	63	63	30	38	31	2E
	B41	B42	B43	B44	B45	B46	B47	B48	B49	B50
	33	67	70	70	6E	65	74	77	6F	72
	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
	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
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	33	34	35	36	37	38	39	30	40	74
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	65	73	74	2E	33	67	70	70	2E	63
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	6F	6D	FF							
	B41	B42	B43	B44	B45	B46	B47	B48	B49	B50
	FF									
	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
	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
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	33	34	35	36	37	38	39	30	FF	FF
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	FF									
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	FF									
	B41	B42	B43	B44	B45	B46	B47	B48	B49	B50
	FF									
	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60
	FF									

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

Logically:

Address Type: FQDN

P-CSCF Address: pcscf1.anyims.test.3gpp.com

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	1C	00	70	63	73	63	66	31	2E
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	61	6E	79	69	6D	73	2E	74	65	73
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	74	2E	33	67	70	70	2E	63	6F	6D
	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
	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  $\geq$ 10):

Byte:	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	 B176
Codina:	00	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 $_{SMS}$ . All records shall be empty.

a) Logically: Status byte set to empty.

### Record 1-x $(x \ge 10)$ :

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	00	FF								
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	FF									
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	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) Dialled number string: "112233445566778"

Byte:	B1	B2	В3		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
Codina:	00	FF

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

## 27.22.2C.4.1 EFPSISMSC (Public Service Identity of the SM-SC)

1 record only.

Logically: Record 1:

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

Byte:	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
Coding:	80	14	74	65	6C	3A	2B	31	31	32
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	32	33	33	34	34	35	35	36	36	37
	B21	B22	B23	B24	B25	B26	B27	B28		Вхх
	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	$USER \rightarrow ME$	Power on ME	[UICC Activation]
2	$ME \rightarrow UICC$	Select EF PL	
3	$UICC \to ME$	Read EF PL	
4	$ME \to UICC$	TERMINAL PROFILE 1.1	PROFILE DOWNLOAD
5	$UICC \to ME$	NORMAL ENDING OF	
		COMMAND 1.1	
6	$ME \rightarrow UICC$	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: DISPLAY TEXT 4.4.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	[wait for user to clear message]
		DISPLAY TEXT 4.4.1	
4	$ME \rightarrow USER$	Display "Toolkit Test 4"	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully]
		DISPLAY TEXT 4.4.1	
6	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
7	$ME \rightarrow USER$	Display of "Toolkit Test 4"	Text shall sustain until - a higher priority event
			occurs.
8	$USS \to ME$	INCOMING MOBILE	
		TERMINATED CALL	

## PROACTIVE COMMAND: DISPLAY TEXT 4.4.1

#### Logically:

Command details

Command number:

Command type: DISPLAY TEXT

Command qualifier: normal priority, wait for user to clear message

Device identities

Source device: UICC Destination device: Display

ETSI TS 131 124 V14.3.0 (2018-01)

**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:

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
DEIX IEV.	01	00	01	'	00	02	02	02	01	00	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.

27.22.4.2.4.2 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 27.22.4.2.4.2, 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 8.15.2, 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 8.16 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: PLAY TONE 1.1.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: PLAY	
4	$ME \to USER$	Display "Dial Tone"	
	/ 00Lit	Play a standard supervisory dial	
		tone through the external ringer for	
_	ME IIIOO	a duration of 5 s	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY TONE 1.1.1	[Command performed successfully]
6	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
7	$UICC \to ME$	PROACTIVE COMMAND	
0	ME . LUCC	PENDING: PLAY TONE 1.1.2 FETCH	
8 9	$ME \to UICC$ $UICC \to ME$	PROACTIVE COMMAND: PLAY	
	OIOO - IVIL	TONE 1.1.2	
10	$ME \to USER$	Display "Sub. Busy"	
		Play a standard supervisory called	
		subscriber busy tone for a duration of 5 s	
11	$ME \to UICC$	TERMINAL RESPONSE: PLAY	[Command performed successfully]
		TONE 1.1.2	, , , , , , , , , , , , , , , , , , , ,
12	$UICC \to ME$	PROACTIVE UICC SESSION	
13	$UICC \to ME$	PROACTIVE COMMAND	
13	OICC - IVIL	PENDING: PLAY TONE 1.1.3	
14	$ME \to UICC$	FETCH	
15	$UICC \to ME$	PROACTIVE COMMAND: PLAY	
16	ME  o USER	TONE 1.1.3 Display "Congestion"	
10	IVIL -> USLIX	Play a standard supervisory	
		congestion tone for a duration of 5	
17	ME	S TERMINIAL DECRONICE, DLAV	
17	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY TONE 1.1.3	[Command performed successfully]
18	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.4	
20	$ME \to UICC$	FETCH	
21	UICC → ME	PROACTIVE COMMAND: PLAY	
		TONE 1.1.4	
22	$ME \rightarrow USER$	Display "RP Ack"	
		Play a standard supervisory radio path acknowledgement tone	
23	$ME \to UICC$	TERMINAL RESPONSE: PLAY	[Command performed successfully]
		TONE 1.1.4	
24	$UICC \to ME$	PROACTIVE UICC SESSION	
25	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: PLAY TONE 1.1.5	
26	$ME \to UICC$	FETCH	
27	$UICC \to ME$	PROACTIVE COMMAND: PLAY	
28	ME  o USER	TONE 1.1.5 Display "No RP"	  Note: The ME will only play three bursts as
20	IVIL -> OOLIK	Play a standard supervisory radio	specified in TS 22.001 [2]]
		path not available / call dropped	· •
00	ME	tone for a duration of 5 s	[Command noviorized access follows
29	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY TONE 1.1.5	[Command performed successfully]
30	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
31	$UICC \to ME$	PROACTIVE COMMAND	
32	ME  o UICC	PENDING: PLAY TONE 1.1.6 FETCH	
52	I IVIL → UICC	1. 21011	I

Cton	Direction	MECCACE / Action	Comments
<b>Step</b> 33	<b>Direction</b> UICC $\rightarrow$ ME	MESSAGE / Action PROACTIVE COMMAND: PLAY	Comments
33	UICC → ME	TONE 1.1.6	
34	$ME \to USER$	Display "Spec Info"	
	IVIL -> OOLIK	Play a standard supervisory error /	
		special information tone for a	
		duration of 5 s	
35	$ME \to UICC$	TERMINAL RESPONSE: PLAY	[Command performed successfully]
		TONE 1.1.6	, , , , , , , , , , , , , , , , , , , ,
36	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
37	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: PLAY TONE 1.1.7	
38	$ME \rightarrow UICC$	FETCH	
39	$UICC \to ME$	PROACTIVE COMMAND: PLAY	
40		TONE 1.1.7	
40	$ME \rightarrow USER$	Display "Call Wait"	
		Play a standard supervisory call waiting tone for a duration of 5 s	
41	$ME \to UICC$	TERMINAL RESPONSE: PLAY	[Command performed successfully]
"'	IVIE → UICC	TONE 1.1.7	[Command penomied successibility]
42	$UICC \to ME$	PROACTIVE UICC SESSION	
	OIOO / IVIL	ENDED	
43	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: PLAY TONE 1.1.8	
44	$ME \to UICC$	FETCH	
45	$UICC \to ME$	PROACTIVE COMMAND: PLAY	
		TONE 1.1.8	
46	$ME \to USER$	Display "Ring Tone"	
		Play a standard supervisory	
		ringing tone for duration of 5 s	
47	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY	[Command performed successfully]
40	11100 ME	TONE 1.1.8	
48	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
49	$USER \to ME$	Set up a voice call	User dials 123456789 to connect to the
43	USER → IVIE	Set up a voice call	network manually]
50	$ME \to USS$	Establish voice call	[Voice call is established]
51	UICC → ME	PROACTIVE COMMAND	[voice can le colabilettea]
	OIGG / IVIE	PENDING: PLAY TONE 1.1.1	
52	$ME \to UICC$	FETCH	
53	$UICC \to ME$	PROACTIVE COMMAND: PLAY	
		TONE 1.1.1	
54	$ME \to USER$	Display "Dial Tone"	
		Superimpose the standard	
		supervisory dial tone on the audio	
		downlink for the duration of 5 s	
55	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY	[Command performed successfully]
<b>E</b> 6	LUCC	TONE 1.1.1 PROACTIVE UICC SESSION	
56	$UICC \to ME$	ENDED	
57	$USER \to ME$	The user ends the call	
58	UICC → ME	PROACTIVE COMMAND	
		PENDING: PLAY TONE 1.1.9	
59	$ME \rightarrow UICC$	FETCH	
60	UICC → ME	PROACTIVE COMMAND: PLAY	
	0.00 / IVIL	TONE 1.1.9	
61	$ME \to USER$	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	
1		(SET-UP message sent to the	
1		network, see GSM"04.08"(8)), a	
		speech call If the ME I"	
I		Play a general beep	

	1		
Step	Direction	MESSAGE / Action	Comments
62	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY	[Command performed successfully]
1		TONE 1.1.9a	or
1		or	[Command beyond ME's capabilities]
		TERMINAL RESPONSE: PLAY TONE 1.1.9b	
63	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
64	$UICC \to ME$	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.10	
65	$ME \rightarrow UICC$	FETCH	
66	$UICC \to ME$	PROACTIVE COMMAND: PLAY TONE 1.1.10	
67	$ME \rightarrow USER$	Display "Beep" Play a ME proprietary general	
68	ME → UICC	beep TERMINAL RESPONSE: PLAY TONE 1.1.10a	[Command performed successfully] or
		Or TERMINAL RESPONSE: PLAY TONE 1.1.10b	[Command beyond ME's capabilities]
69	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
70	$UICC \to ME$	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.11	
71	ME → UICC	FETCH	
72	UICC → ME	PROACTIVE COMMAND: PLAY	
73	$ME \rightarrow USER$	Display "Positive"	
		Play a ME proprietary positive acknowledgement tone	
74	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY TONE 1.1.11a	[Command performed successfully] or
		or TERMINAL RESPONSE: PLAY	[Command beyond ME's capabilities]
		TONE 1.1.11b	
75	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
76	$UICC \to ME$	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.12	
77	ME → UICC	FETCH	
78	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.12	
79	$ME \rightarrow USER$	Display "Negative" Play a ME proprietary negative	
		acknowledgement tone	
80	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY TONE 1.1.12a	[Command performed successfully] or
		or TERMINAL RESPONSE: PLAY	[Command beyond ME's capabilities]
		TONE 1.1.12b	
81	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
82	$UICC \to ME$	PROACTIVE COMMAND PENDING: PLAY TONE 1.1.13	
83	$ME \rightarrow UICC$	FETCH	
84	UICC → ME	PROACTIVE COMMAND: PLAY TONE 1.1.13	
85	$ME \to USER$	Display "Quick" Play a ME proprietary general	
86	ME → UICC	beep TERMINAL RESPONSE: PLAY TONE 1.1.13a	[Command performed successfully] or
		or	[Command beyond ME's capabilities]
		TERMINAL RESPONSE: PLAY TONE 1.1.13b	
87	$UICC \to ME$	PROACTIVE UICC SESSION	
I	I	ENDED	I

Step	Direction	MESSAGE / Action	Comments
88	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: PLAY TONE 1.1.14	
89	$ME \to UICC$	FETCH	
90	$UICC \to ME$	PROACTIVE COMMAND: PLAY	
		TONE 1.1.14	
91	$ME \rightarrow USER$	Display " <abort>"</abort>	
		Play an ME Error / Special	
		information tone until user aborts	
		this command (the command shall	
		be aborted by the user within 1	
		minute)	
92	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY	[Proactive UICC session terminated by the
		TONE 1.1.14	user]
93	$UICC \to ME$	PROACTIVE UICC SESSION	
0.4		ENDED	
94	$UICC \to ME$	PROACTIVE COMMAND	
0.5	ME IIIOO	PENDING: PLAY TONE 1.1.15 FETCH	
95	ME → UICC	. = . *	
96	$UICC \to ME$	PROACTIVE COMMAND: PLAY	[No alpha identifier, no tone tag, no duration
97		TONE 1.1.15	tag]
97	$ME \rightarrow User$	ME plays general beep, or if not	[ME uses default duration defined by ME-manufacturer]
		supported any (defined by ME-	INE-manufacturer]
		manufacturer) other supported tone	
98	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY	[Command performed successfully], [ME uses
30	IVIE → UICC	TONE 1.1.15	general beep, or if not supported any (defined
		TONE 1.1.15	by ME-manufacturer) other supported tone,
			uses default duration defined by
			ME-manufacturer]
99	$UICC \to ME$	PROACTIVE UICC SESSION	The managed of j
	CIOO / IVIL	ENDED	

For coding, see ETSITS 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 27.22.4.5.4.4.2, 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 27.22.4.5.4.2, 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 8.16, 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 8.16, 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 successfull 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	$UICC \rightarrow ME$	PROACTIVE COMMAND	[To inform the ME that FDN becomes
		PENDING: REFRESH 1.1.1	enabled]
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		REFRESH 1.1.1	
4	UICC	EF EST contents states FDN	[New EF EST value: 01]
_		enabled	
5	$ME \rightarrow UICC$	USIM Initialization including send	[ME performs USIM initialization in
	ME 11100	STATUS[P1='01']	accordance with TS 31.111 [15] clause 6.4.7]
6	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[normal ending]
		Or	
		TERMINAL RESPONSE:	[additional EFs read]
		REFRESH 1.1.1B	[daditional El o loda]
7	$UICC \rightarrow ME$	PROACTIVE UICC SESSION	
	0.00 /	ENDED	
8	$USER \to ME$	Call setup to "321"	
9	$ME \rightarrow USER$	Call set up not allowed	
10	$USER \to ME$	Call setup to "123"	
11	$ME \to USS$	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:

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
DEIX IEV.	0.	00	0.1	0 1	00	02	02	02	0.	00	0.1	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	$UICC \to ME$	PROACTIVE COMMAND	[To inform the ME that EF FDN will be in an
		PENDING: REFRESH 1.2.1	updated state, FDN service already enabled]
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: 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: REFRESH 1.2.1A Or	[normal ending]
		TERMINAL RESPONSE: REFRESH 1.2.1B	[additional EFs read]
6	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
7	$USER \to ME$	Call setup to "123"	
8	$ME \rightarrow USER$	Call set up not allowed	
9	$USER \to ME$	Call setup to "0123456789"	
10	$ME \rightarrow USS$	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	$\begin{array}{c} UICC \to \\ ME \end{array}$	PROACTIVE COMMAND PENDING: REFRESH 1.3.1	
2	$\begin{array}{c} ME \to \\ UICC \end{array}$	FETCH	
3	$\begin{array}{c} UICC \to \\ ME \end{array}$	PROACTIVE COMMAND: 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	$\begin{array}{c} ME \to \\ UICC \end{array}$	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: REFRESH 1.3.1A Or	[normal ending]
		TERMINAL RESPONSE: REFRESH 1.3.1B	[additional EFs read]
7	$\begin{array}{c} UICC \to \\ ME \end{array}$	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
DEIX IEV.	0.	00	0.		02	02	02	02	0.	00		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	1
----------	----	----	----	----	----	----	----	----	----	----	----	----	---

# **Expected Sequence 1.4 (REFRESH, USIM Initialization and Full File Change Notification)**

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: REFRESH 1.4.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		REFRESH 1.4.1	
4	UICC	EF EST contents states FDN	[New EF EST value: 01]
5	UICC	enabled Update EF FDN	[EF FDN record 1 updated to contain the
3	OICC	Opuate EF FDN	dialling string "0123456789"]
6	ME → UICC	USIM Initialization including send	[ME performs USIM initialization in
	WE 70100	STATUS[P1='01']	accordance with TS 31.111 [15] clause 6.4.7]
7	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[normal ending]
		REFRESH 1.4.1A	
		Or	
		TERMINAL RESPONSE:	[additional EFs read]
		REFRESH 1.4.1B	
8	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
9		Call setup to "321"	
10		Call set up not allowed	
11		Call setup to "0123456789"	
12	$ME \to USS$	Setup	Called party BCD number shall be
			"0123456789"

# PROACTIVE COMMAND: REFRESH 1.4.1

Logically:

Command details

Command number:

Command type: REFRESH

Command qualifier: USIM Initialization and Full File Change Notification

Device identities

Source device: UICC Destination device: ME

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
DLIX-ILV.	01	03	UI	UI	00	02	02	02	01	03	Οī	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	$UICC \rightarrow ME$	PROACTIVE COMMAND	
		PENDING: REFRESH 1.5.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		REFRESH 1.5.1	
4	$ME \rightarrow UICC$	STATUS[P1='02']	ME indicates to USIM that the termination
			procedure is starting
5	$ME \rightarrow UICC$	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:

									00			
BER-TLV:	D0	09	81	03	01	01	04	82	02	81	82	İ

# 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	[Start a sequence to verify that the ME returns
		mode	the RP-ACK message back to the USS, if the
			UICC responds with '90 00']
2	$USS \to ME$	SMS-PP Data Download Message	
		1.6.1	
3	$ME \rightarrow USER$		
		message or alert the user of a	
4	ME	short message waiting ENVELOPE: SMS-PP	
4	$ME \rightarrow UICC$	DOWNLOAD 1.6.1	
5	UICC → ME	SW1/SW2 of '90 00'	
6	ME → USS	RP-ACK	
7		PROACTIVE COMMAND	
'	OICC - IVIE	PENDING: REFRESH 1.1.1	
8	ME → UICC	FETCH	
9	/ 0.00	PROACTIVE COMMAND:	
	0.00 /	REFRESH 1.1.1	
10	UICC	EF EST contents states FDN	[New EF EST value: 01]
		enabled	
11	$ME \rightarrow UICC$	USIM Initialization including send	[ME performs USIM initialization in
		STATUS[P1='01']	accordance with TS 31.111 [15] clause 6.4.7]
12	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[normal ending]
		REFRESH 1.1.1A	
		Or	faddicional EE, and di
		TERMINAL RESPONSE:	[additional EFs read]
13	UICC → ME	REFRESH 1.1.1B PROACTIVE UICC SESSION	
13	OICC → ME	ENDED	
14	$USER \to ME$	Call setup to "321"	
15		Call set up not allowed	
16		Call setup to "123"	
17		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-RPTP-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"

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	$UICC \! \to ME$	PROACTIVE COMMAND	[To inform the ME that FDN becomes
		PENDING: REFRESH 1.7.1	enabled]
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	No UICC reset shall be performed between
		REFRESH 1.7.1	steps 3 and 9.
4	$ME \rightarrow UICC$	STATUS[P1='02']	ME indicates to USIM that the termination
_			procedure is starting
5	$ME \rightarrow UICC$	Select AID=USIM	Application termination
_	11100	(P2='44') OR (P2='4C')	[Name of FOT welves 04]
6	UICC	EF EST contents states FDN	[New EF EST value: 01]
7	ME LUCC	enabled USIM Initialization, including send	[ME performs USIM initialization]
<b>'</b>	INE → DICC	STATUS[P1='01']	[INE Performs OSIW Initialization]
8	ME → UICC	TERMINAL RESPONSE:	[normal ending]
	IVIL 70100	REFRESH 1.7.1	[normal origing]
9	UICC → ME	PROACTIVE UICC SESSION	
		ENDED	
10	$USER \to ME$	Call setup to "321"	
11	$ME \rightarrow USER$	Call set up not allowed	
12	$USER \to ME$	Call setup to "123"	
13	$ME \to USS$	Setup	Called party BCD number shall be "123"
14	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
15	$USER \to ME$	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

												1
BER-TLV:	I 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 connected to the USS and registered in idle mode.

The USS uses Network Mode of Operation II according to TS 34.108 [12] clause 7.2.2.

The GERAN or UTRAN parameters of the USS are:

- Mobile Country Code (MCC) = 246;
- Mobile Network Code (MNC) = 81;
- Location Area Code (LAC) = 0001;
- Routing Area Code (RAC) = 05;

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 2.1 to 2.7.

# 27.22.4.7.2.4.2 Procedure

# **Expected Sequence 2.1 (REFRESH, UICC Reset for IMSI Changing procedure)**

Step	Direction	MESSAGE / Action	Comments
1	$UICC{\to}ME$	PROACTIVE COMMAND	[To inform the ME that IMSI has changed]
		PENDING: REFRESH 2.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		REFRESH 2.1.1	
4	$ME \to USS$	IMSI DETACH INDICATION	Indicates IMSI detach and/or GPRS detach,
		and/or DETACH REQUEST	depending on if the ME is CS and/or PS
			registered according to its capabilities
			Note: this step can be performed in parallel or
			after step 5.
5	$ME \rightarrow UICC$	STATUS[P1='02']	ME indicates to USIM that the termination
			procedure is starting
6			Both cold and warm resets are allowed
7	UICC	Update EF IMSI, EF LOCI and EF	Update the content of EF IMSI to
		PSLOCI	"246813579", TMSI in EF LOCI and P-TMSI
			in EF PSLOCI be set to 'FF FF FF FF'
8	$ME \rightarrow UICC$	ME performs USIM Initialization,	
		including send STATUS[P1='01']	
		and no TERMINAL RESPONSE	
		shall be sent	
9	$ME \to USS$	LOCATION UPDATING	The ME will register using IMSI "246813579"
		REQUEST and/or ATTACH	in CS and/or PS depending on its capabilities
4.0		REQUEST	
10	$USS \to ME$	LOCATION UPDATING ACCEPT	
		and/or ATTACH ACCEPT	
11	$ME \rightarrow USS$	TMSI REALLOCATION	
		COMPLETE and/or ATTACH	
		COMPLETE	

PROACTIVE COMMAND: REFRESH 2.1.1

Logically:

Command details

Command number:

Command type: REFRESH
Command qualifier: UICC RESET

Device identities

Source device: UICC Destination device: ME

DED TIV								00			
BER-TLV:	1 D0	0.9	1 01	∩2	Ι Λ1	()1	()4		02	1 01	ดว
DED-ILV.	1 170	1 ():9		(),5			1 174	1 02	1 ()/		0/

# Expected Sequence 2.2 (REFRESH, USIM Application Reset for IMSI Changing procedure)

Step	Direction	MESSAGE / Action	Comments
1	$UICC{\to}ME$	PROACTIVE COMMAND	[To inform the ME that IMSI has changed]
		PENDING: REFRESH 2.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
	MENUO	REFRESH 2.2.1	
4	ME→USS	IMSI DETACH INDICATION 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 (performed in parallel or after step 5 and 6)
5		STATUS[P1='02']	ME indicates to USIM that the termination procedure is starting
6 7	ME → UICC	Undete FF MOL FF LOCK and FF	Application termination
7	UICC	Update EF IMSI, EF LOCI and EF PSLOCI	The 3G session termination procedure has been completed by the ME. The content of EF IMSI has been updated to "246813579" and TMSI in EF LOCI and P-TMSI in EF PSLOCI are updated to 'FF FF FF FF'
8	$ME \rightarrow UICC$	SELECT AID=USIM (P2='0x')	Application selection
9	$ME \to UICC$	USIM Initialization, including send STATUS[P1='01']	[ME performs USIM initialization]
10	$ME \to UICC$	TERMINAL RESPONSE: REFRESH 2.2.1	[normal ending]
11	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
12	$ME \rightarrow USS$	LOCATION UPDATING REQUEST and/or ATTACH REQUEST	The ME will register using IMSI "246813579" in CS and/or PS depending on its capabilities
13	$USS \to ME$	LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT	
14	$ME \to USS$	TMSI REALLOCATION COMPLETE and/or ATTACH 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:

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
DEIX IEV.	0.	00	0.1	0 1	00	02	02	02	0.	00	0.1	00

# Expected Sequence 2.3 (REFRESH, 3G Session Reset for IMSI Changing procedure)

Step	Direction	MESSAGE / Action	Comments
1	$UICC{\to}ME$	PROACTIVE COMMAND	[To inform the ME that IMSI has changed]
		PENDING: REFRESH 2.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
4	ME 1100	REFRESH 2.3.1	Indicates IMCI datach and/or CDDC datach
4	ME→USS	IMSI DETACH INDICATION 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 Note: this step can be performed in parallel or after step 5.
5	ME → UICC	STATUS[P1='02']	If A.1/172 is supported, then the ME indicates to USIM that the termination procedure is starting,. completes the 3G session termination procedure and resets the application via SELECT by DF name command with the AID.
6	UICC	Update EF IMSI, EF LOCI and EF PSLOCI	The ME performs the USIM initialization. The content of EF IMSI has been updated to "246813579" and TMSI in EF LOCI and P- TMSI in EF PSLOCI are updated to 'FF FF FF FF'
7	$ME \to UICC$	TERMINAL RESPONSE: REFRESH 2.3.1A	[normal ending]
		Or TERMINAL RESPONSE: REFRESH 2.3.1B	
8	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9	$ME \!  o  USS$	LOCATION UPDATING REQUEST and/or ATTACH REQUEST	The ME will register using IMSI "246813579" in CS and/or PS depending on its capabilities
10	$USS \to ME$	LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT	
11	$ME \rightarrow USS$	TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE	

PROACTIVE COMMAND: REFRESH 2.3.1

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: 3

File: EF IMSI File: EF PSLOCI File: EF LOCI

Coding:

BER-TLV:	D0	1E	81	03	01	01	06	82	02	81	82	92
	13	03	3F	00	7F	FF	6F	07	3F	00	7F	FF
	6F	73	3F	00	7F	FF	6F	7E				

TERMINAL RESPONSE: REFRESH 2.3.1A

Logically:

Command details

Command number:

Command type: REFRESH
Command qualifier: 3G Session Reset

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	06	82	02	82	81	83	01	00

TERMINAL RESPONSE: REFRESH 2.3.1B

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: REFRESH performed with additional EFs read

Coding:

BER-TLV: 81 03 01 01 06 82 02 82	81	83	01	03
----------------------------------	----	----	----	----

Expected Sequence 2.4 (REFRESH, reject 3G Session Reset for IMSI Changing procedure during CS call)

Step	Direction	MESSAGE / Action	Comments
1	$USER \to ME$	MO Call setup	
2	$ME \rightarrow USS$	Call established and maintained	
3	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: REFRESH 2.4.1	
4	$ME \rightarrow UICC$		
5	$UICC \to ME$	PROACTIVE COMMAND:	
		REFRESH 2.4.1	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE:	ME rejects REFRESH proactive command
		REFRESH 2.4.1A	
		Or	
		TERMINAL RESPONSE:	
_		REFRESH 2.4.1B	N. C. FE IMOL FEL COL. LEE BOLOOL
7	$UICC \to ME$	PROACTIVE UICC SESSION	Note: EF IMSI, EF LOCI and EF PSLOCI are
		ENDED	not updated by the UICC, see TS 31.111[15], Icl. 6.4.7.1
8	LICED ME	The MO call is terminated	GI. 0.4.7.1
0	USEK → ME	The MO can 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: 3

File: EF IMSI
File: EF PSLOCI
File: EF LOCI

#### Coding:

BER-TLV:	D0	1E	81	03	01	01	06	82	02	81	82	92
	13	03	3F	00	7F	FF	6F	07	3F	00	7F	FF
	6F	73	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

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											

# Expected Sequence 2.5 (REFRESH, reject UICC Reset for IMSI Changing procedure during CS call)

Step	Direction	MESSAGE / Action	Comments
1	$USER \to ME$	CS MO Call setup	
2	$ME \rightarrow USS$	Call established and maintained	
3	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: REFRESH 2.5.1	
4	$ME \rightarrow UICC$	FETCH	
5	$UICC \to ME$	PROACTIVE COMMAND:	
		REFRESH 2.5.1	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE:	ME rejects REFRESH proactive command
		REFRESH 2.5.1A	
		Or	
		TERMINAL RESPONSE:	
		REFRESH 2.5.1B	
7	$UICC \to ME$	PROACTIVE UICC SESSION	Note: EF IMSI, EF LOCI and EF PS LOCI are
		ENDED	not updated by the UICC, see TS 31.111[15],
		TI 00 MO III / 1	cl. 6.4.7.1
8	$USER \rightarrow ME$	The CS MO call is terminated	

PROACTIVE COMMAND: REFRESH 2.5.1

Logically:

Command details

Command number: 1

Command type: REFRESH
Command qualifier: UICC RESET

Device identities

Source device: UICC Destination device: ME

BER-TLV:	D0	09	81	03	01	01	04	82	02	81	82	

TERMINAL RESPONSE: REFRESH 2.5.1A

Logically:

Command details

Command number: 1

Command type: REFRESH
Command qualifier: UICC 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	04	82	02	82	81	83	02	20
	02											

TERMINAL RESPONSE: REFRESH 2.5.1B

Logically:

Command details

Command number: 1

Command type: REFRESH
Command qualifier: UICC 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

Ī	BER-TLV:	81	03	01	01	04	82	02	82	81	83	02	20
I		01											

# Expected Sequence 2.6 (REFRESH, UICC Reset for IMSI Changing procedure during active PDP context)

Step	Direction	MESSAGE / Action	Comments
1	$USER {\to} ME$	Data Call setup	PDP context will be established
2	ME →USS	PDP context established and maintained	
3	UICC→ ME	PROACTIVE COMMAND PENDING: REFRESH	[To inform the ME that IMSI has changed]
4	$ME \rightarrow UICC$	FETCH	
5	UICC → ME	PROACTIVE COMMAND: REFRESH 2.6.1 or 2.6.2	IF terminal supports PD_ Refresh_Enforcement_Policy use PROACTIVE COMMAND: REFRESH 2.6.2, ELSE 2.6.1.
6	ME→USS	Deactivate PDP context	Mobile will deactivate the PDP context Note 1: this step is performed locally and may not reflect on the interface to the USS. Note 2: this step can happen after step 8.
7	ME→USS	IMSI DETACH INDICATION 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.  Note: this step can happen after step 8
8	$ME \rightarrow UICC$	STATUS[P1='02']	ME indicates to USIM that the termination procedure is starting
9	$ME \rightarrow UICC$	ME performs UICC reset	Both cold and warm resets are allowed
10	UICC	Update EF IMSI, EF LOCI and EF PSLOCI	The content of EF IMSI has been updated to "246813579" and TMSI in EF LOCI and P-TMSI in EF PSLOCI are updated to 'FF FF FF FF'
11	ME → UICC	ME resets the UICC, perform USIM Initialization, including send STATUS[P1='01'] and no TERMINAL RESPONSE shall be sent	[ME resets and performs USIM initialization]
12	ME→ USS	LOCATION UPDATING REQUEST and/or ATTACH REQUEST	The ME will register using IMSI "246813579" in CS and/or PS depending on its capabilities
13	$USS \to ME$	LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT	
14	$ME \rightarrow USS$	TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE	

PROACTIVE COMMAND: REFRESH 2.6.1

Logically:

Command details

Command number: 1

Command type: REFRESH
Command qualifier: UICC RESET

Device identities

Source device: UICC Destination device: ME

Coding:

ER-TLV: D0 09 8	03 01	01 04	82	02	81	82	l
-----------------	-------	-------	----	----	----	----	---

PROACTIVE COMMAND: REFRESH 2.6.2

Logically:

Command details

Command number: 1

Command type: REFRESH
Command qualifier: UICC RESET

Device identities

Source device: UICC Destination device: ME

Refresh enforcement policy: Force immediate REFRESH even if the terminal is busy on data call

BER-TLV:	D0	0C	81	03	01	01	04	82	02	81	82	3A
	01	02										

# Expected Sequence 2.7 (REFRESH, 3G Session Reset for IMSI Changing procedure during active PDP context)

Step	Direction	MESSAGE / Action	Comments
1	$USER \to ME$	Data Call setup	PDP context will be established
2	$ME \rightarrow USS$	PDP context establishedand maintained	
3	UICC→ ME	PROACTIVE COMMAND PENDING: REFRESH	[To inform the ME that IMSI has changed]
4	$ME \rightarrow UICC$	FETCH	
5	UICC → ME	PROACTIVE COMMAND: REFRESH 2.7.1 or 2.7.2	IF terminal supports PD_ Refresh_Enforcement_Policy use PROACTIVE COMMAND: REFRESH 2.7.2, ELSE 2.7.1.
6	ME→USS	Deactivate PDP context	Mobile will deactivate the PDP context Note: this step can be performed in parallel or after step 8.
7	ME→USS	IMSI DETACH INDICATION 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 Note 1: this step is performed locally and may not reflect on the interface to the USS. Note 2: this step can be performed in parallel or after step 8.
8	ME → UICC	STATUS[P1='02']	If A.1/172 is supported, then the ME indicates to USIM that the termination procedure is starting, completes the 3G session termination procedure and resets the application via SELECT by DF name command with the AID.
9	UICC	Update EF IMSI, EF LOCI and EF PSLOCI	The ME performs the USIM initialization. The content of EF IMSI has been updated to "246813579" and TMSI in EF LOCI and P- TMSI in EF PSLOCI are updated to 'FF FF FF FF'
10	ME → UICC	TERMINAL RESPONSE: REFRESH 2.7.1A Or TERMINAL RESPONSE: REFRESH 2.7.1B	[normal ending]
11	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
12	ME→ USS	LOCATION UPDATING REQUEST and/or ATTACH REQUEST	The ME will register using IMSI "246813579" in CS and/or PS depending on its capabilities
13	$USS \to ME$	LOCATION UPDATING ACCEPT and/or ATTACH ACCEPT	
14	$ME \rightarrow USS$	TMSI REALLOCATION COMPLETE and/or ATTACH COMPLETE	

PROACTIVE COMMAND: REFRESH 2.7.1

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: 3

File: EF IMSI
File: EF PSLOCI
File: EF LOCI

### Coding:

BER-TLV:	D0	1E	81	03	01	01	06	82	02	81	82	92
	13	03	3F	00	7F	FF	6F	07	3F	00	7F	FF
	6F	73	3F	00	7F	FF	6F	7E				

#### PROACTIVE COMMAND: REFRESH 2.7.2

#### 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: 3

File: EF IMSI
File: EF PSLOCI
File: EF LOCI

Refresh enforcement policy: Force immediate REFRESH even if the terminal is busy on data call

# Coding:

BER-TLV:	D0	21	81	03	01	01	06	82	02	81	82	92
	13	03	3F	00	7F	FF	6F	07	3F	00	7F	FF
	6F	73	3F	00	7F	FF	6F	7E	3A	01	02	

#### TERMINAL RESPONSE: REFRESH 2.7.1A

# 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: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	06	82	02	82	81	83	01	00

TERMINAL RESPONSE: REFRESH 2.7.1B

Logically:

Command details

Command number:

Command type: REFRESH
Command qualifier: 3G Session Reset

Device identities

Source device: ME
Destination device: UICC

Result

General Result: REFRESH performed with additional EFs read

Coding:

BER-TLV:	81	03	01	01	06	82	02	82	81	83	01	03

#### 27.22.4.7.2.5 Test requirement

The ME shall operate in the manner defined in expected sequences 2.1 to 2.7.

# 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 successfull 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/NB-IoT is connected to the USIM Simulator and connected to the E-USS/NB-SS.

For sequences 3.1 and 3.2:

The elementary files are coded as Toolkit default with the following exceptions:

#### **EF**<sub>FPLMN</sub>

Logical	ly:	PLMN1	: 25	4 002 (M	ICC MN	C)						
		PLMN2	2: 25	4 003								
		PLMN3	3: 25	4 004								
		PLMN4	l: 23	4 004								
		PLMN5	5: 23	4 005								
		PLMN6	5: 23	4 006								
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 32	B14 54	B15 00	B16 32	B17 64	B18 00						

# $EF_{OPLMNwACT} \\$

Logica	lly:	1st PLMN: 1st ACT: 2nd PLMN: 2nd ACT: 3rd PLMN: 3rd ACT: 4th PLMN: 4th ACT: 5th PLMN: 6th ACT: 7th PLMN: 7th ACT: 8th PLMN: 8th ACT:	UTRAI 254 00: GSM 274 00: UTRAI 274 UTRAI 274 UTRAI 274 UTRAI 274 UTRAI	1 2 N 003 N 004 N 005 N 006 N	NC)					
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/NB-SS parameters and the following parameters are used:

**EF**<sub>FPLMN</sub>

Logical	ly:	PLMN1: PLMN2: PLMN3: PLMN4: PLMN5: PLMN6:	254 00 254 00 254 00 234 00 234 00 234 00	)4 )4 )5	MNC)						
Coding: Hex	B1 52		B3 B			B7 52	B8 44	B9 00	B10 32	B11 44	B12 00
	B13 32		B15 B	16 B1 2 64							
EF <sub>OPLMNwA</sub>	СТ										
Logical	ly:	1st PLMN: 1st ACT: 2nd PLMN 2nd ACT: 3rd PLMN: 4th PLMN: 4th ACT: 5th PLMN: 6th ACT: 6th PLMN: 6th ACT: 7th PLMN: 7th ACT: 8th PLMN: 8th ACT:	E-UTH 254 00 GSM 274 00 E-UTH 27- E-UTH 27- E-UTH 27- E-UTH 27- E-UTH 27- E-UTH	02 RAN 4 003 RAN 4 004 RAN 4 005 RAN 4 006 RAN 4 007							
Coding: Hex	B01 52	B02 14	B03 00	B04 C0	B05 00	B06 52	B07 14	B08 00	B09 00	)	B10 80
	B11 72	B12 24	B13 00	B14 40	B15 00	B16 72	B17 34	B18 00	B19 40	)	B20 00
	B21 72	B22 44	B23 00	B24 40	B25 00	B26 72	B27 54	B28 00	B29 40	)	B30 00
	B31 72	B32 64	B33 00	B34 40	B35 00	B36 72	B37 74	B38 00	B39 80	)	B40 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:	
		- Attach/detach: disabled.	
		- LAI (MCC/MNC/LAC): 254/001/0001.	
		- Access control: unrestricted.	
		The second UMTS USS transmits on BCCH,	
		with the following network parameters: - Attach/detach: disabled.	
		- LAI (MCC/MNC/LAC): 254/002/0001.	
		- Access control: unrestricted.	
2	$ME \rightarrow USS$	The ME registers to the first USS.	
3	UICC → ME	PROACTIVE COMMAND PENDING: SET UP	[Setting up LOCATION STATUS
	OIOO / IVIL	EVENT LIST 3.1.1	Event]
4	$ME \rightarrow UICC$	FETCH	•
5	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT	
		LIST 3.1.1	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT	IF A.1/171 THEN ME sends a
		LIST 3.1.1	ENVELOPE: EVENT DOWNLOAD
			- Location Status 3.1.2
7	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
	145	REFRESH 3.1.1	
8		FETCH	Note: Oten 44 eeg
9	$UICC \to ME$	PROACTIVE COMMAND: REFRESH 3.1.1	Note: Step 11 can occur at any time during execution of steps 10a
			to 10d
10a	UICC	Void	lo 10d
10b	ME → UICC	Update of EF FPLMN	[Deletion of the entries with PLMN
100	IVIL -> 0100	opadio of El TT Elvill	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	$ME \to USS$	From steps 9 -13:	
		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]
''	IVIE → UICC	TERMINAL RESI ONSE. REI RESITS.T.T	Note : For a pre-release 11 ME,
			the UICC simulator does not need
			to evaluate the response
12	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	•
13		Wait approx. 180 seconds	[The ME does not register to
			another USS than the currently
			selected.]
14	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
15	ME	REFRESH 3.1.2	
15	ME → UICC	FETCH	Note: Stan 10 can account to account
16	$UICC \to ME$	PROACTIVE COMMAND: REFRESH 3.1.2	Note: Step 18 can occur at any time during execution of steps 17a
			to 17c
17a	UICC	Void	
17b	ME → UICC	Update of EF FPLMN	[Deletion of the entry with PLMN
	/ 3.00	·	254/002]
17c	ME	Update of ME's internal memory	[Not explicitly verified: Deletion of
		,	the FPLMN entry with PLMN
			254/002]
18	$ME \rightarrow UICC$	TERMINAL RESPONSE: REFRESH 3.1.2	[normal ending]
19	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
20	$ME \to USS$	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  Note: The ME send the Envelope after registration to the second USS, thus might have sent the Envelope also before steps 18/19.
22	$UICC \to ME$	PROACTIVE COMMAND PENDING: REFRESH 3.1.3	
23	$ME \rightarrow UICC$	FETCH	
24	$UICC \to ME$	PROACTIVE COMMAND: REFRESH 3.1.3	Note: Step 26 can occur at any time during execution of steps 25a to 25c
25a	UICC	Void	
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	$ME \to UICC$	TERMINAL RESPONSE: REFRESH 3.1.2	[normal ending]
27	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
28	$ME \rightarrow USS$	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 Note: The ME send the Envelope after registration to the first USS, thus might have sent the Envelope also before steps 26/27.
30	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 3.2.1	
31	111L 7 0100	FETCH	
32	$UICC \to ME$	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	$USER \to ME$	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:

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

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 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		
										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		
										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)** 

243

Step	Direction	MESSAGE / Action	Comments
1	USS	The UMTS USS transmits on BCCH, with the	
		following network parameters:	
		- Attach/detach: disabled.	
		- LAI (MCC/MNC/LAC): 254/001/0001.	
		- Access control: unrestricted. The GSM SS transmits on BCCH, with the	
		following network parameters:	
		- Attach/detach: disabled.	
		- LAI (MCC/MNC/LAC): 254/002/0001.	
		- Cell ID: 0001	
		- Access control: unrestricted.	
2	$ME \rightarrow USS$	The ME registers to the UMTS USS and	
3	$UICC \to ME$	achieves updated idle mode.  PROACTIVE COMMAND PENDING: SET UP	[Setting up LOCATION STATUS
		EVENT LIST 3.1.1	Event]
4	$ME \rightarrow UICC$	FETCH	- 1
5	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT	
<u></u>		LIST 3.1.1	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT	IF A.1/171 THEN ME sends a ENVELOPE: EVENT DOWNLOAD
		LIG1 3.1.1	- Location Status 3.2.2
7	UICC → ME	PROACTIVE COMMAND PENDING:	Location Glatas 5.2.2
		REFRESH 3.2.1	
8		FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND: REFRESH 3.2.1	Note: Step 11 can occur at any
			time during execution of steps 10a
10a	UICC	Void	to 10c
10a	ME → UICC	Update of EF FPLMN	[Deletion of the entry with PLMN
	/ 5100		254/002]
10c	ME	Update of ME's internal memory	[Not explicitly verified: Deletion of
			the FPLMN entry with PLMN
11	ME	TEDMINIAL DESCONSE, DEEDES LO 4.0	254/002]
11		TERMINAL RESPONSE: REFRESH 3.1.2 PROACTIVE UICC SESSION ENDED	[normal ending]
13	$\begin{array}{c} UICC \to ME \\ ME \to USS \end{array}$	The ME registers to the GSM SS and is in	Note: The ME might have
	IVIL -> 000	updated idle mode.	registered to the second USS also
		•	before steps 11/12.
14	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD - Location	PLMN MCC/MNC: 254/002,
		Status 3.2.1	Normal service
			Note: The ME send the Envelope
			after registration to the GSM SS,
			thus might have sent the Envelope
			also before steps 11/12.
15	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
16	$ME \rightarrow UICC$	REFRESH 3.2.2 FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: REFRESH 3.2.2	Note: Step 19 can occur at any
''	OICC → IVIE	NOTOTIVE GOWNING NET NEGIT 3.2.2	time during execution of steps 18a
			to 18c
18a	UICC	Void	
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	Note: The ME might best
21	$ME \rightarrow USS$	The ME registers to the UMTS USS and is in updated idle mode.	Note: The ME might have registered to the first USS also
		apadied idie iliode.	before steps 19/20.
	1	1	

22	ME → UICC	Status 3.2.2	PLMN MCC/MNC: 254/001 Note: The ME send the Envelope after registration to the first USS, thus might have sent the Envelope also before steps 19/20.
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 3.2.1	
24	$ME \to UICC$	FETCH	
25	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 3.2.1	[Event LOCATION STATUS download removed]
26	, 5.55	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	$USER \to ME$	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

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

BER-TLV:	D6	15	19	01	03	82	02	82	81	1B	01	00
	13	09	52	14	00	00	01	00	01	Note		
										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/NB-	The first E-USS/NB-SS transmits on BCCH,	33				
	SS	with the following network parameters:					
		- Attach/detach: disabled.					
		- TAI (MCC/MNC/TAC): 254/001/0001.					
		- Access control: unrestricted.					
		The second E-USS/NB-SS transmits on					
		BCCH, with the following network parameters:					
		- Attach/detach: disabled.					
		- TAI (MCC/MNC/TAC): 254/002/0001.					
2	$ME \rightarrow E$ -	- Access control: unrestricted. The ME registers to the first E-USS/NB-SS.					
	USS/NB-SS	The ME registers to the first E-033/ND-33.					
3	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP	[Setting up LOCATION STATUS				
		EVENT LIST 3.1.1	Event]				
4	$ME \rightarrow UICC$	FETCH					
5	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT					
6	ME → UICC	LIST 3.1.1 TERMINAL RESPONSE: SET UP EVENT	IF A.1/171 THEN ME sends a				
0	INIE → DICC	LIST 3.1.1	ENVELOPE: EVENT DOWNLOAD				
			- Location Status 3.3.3				
7	$UICC \to ME$	PROACTIVE COMMAND PENDING:					
		REFRESH 3.3.1					
8	$ME \rightarrow UICC$	FETCH					
9	$UICC \to ME$	PROACTIVE COMMAND: REFRESH 3.3.1	Note: Step 11 can occur at any				
			time during execution of steps 10a				
100	1,1100	Void	to 10d				
10a 10b	UICC ME → UICC	Void Update of EF FPLMN	[Deletion of the entries with PLMN				
100	ME → UICC	Opuate of EF FFLIVIN	254/003 and PLMN 254/004]				
10c	ME	Update of ME's internal memory	[Not explicitly verified: Deletion of				
		opaute of the officers and the officers	the FPLMN entries with PLMN				
			254/003 and PLMN 254/004]				
10d	$ME \rightarrow E$ -	From steps 9 -13:					
	USS/NB-SS	The ME does not register to another E-					
		USS/NB-SS 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]				
''	IVIE -> UICC	TERMINAL REST ONSE. RETRESTTS.S.T	Note : For a pre-release 11 ME,				
			the UICC simulator does not need				
			to evaluate the response				
12	$UICC \to ME$	PROACTIVE UICC SESSION ENDED					
13		Wait approx. 180 seconds	[The ME does not register to				
			another E-USS/NB-SS than the				
			currently selected.]				
4.4	11100 115	DDOACTIVE COMMAND DENDING					
14	$UICC \to ME$	PROACTIVE COMMAND PENDING: REFRESH 3.3.2					
15	$ME \rightarrow UICC$	FETCH					
16	$UICC \rightarrow ME$	PROACTIVE COMMAND: REFRESH 3.3.2	Note: Step 18 can occur at any				
			time during execution of steps 17a				
			to 17c				
17a	UICC	Void					
17b	$ME \rightarrow UICC$	Update of EF FPLMN	[Deletion of the entry with PLMN				
4=	N/=	III I CAST : A	254/002]				
17c	ME	Update of ME's internal memory	[Not explicitly verified: Deletion of				
			the FPLMN entry with PLMN				
18	$ME \rightarrow UICC$	TERMINAL RESPONSE: REFRESH 3.3.2	254/002] [normal ending]				
19	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	[Figure 1   Figure 2	20	$ME \rightarrow E-$	The ME registers to the second E-USS/NB-	Note: The ME might have
	USS/NB-SS	SS.	registered to the second USS also				
	300200		before steps 18/19.				
-	•						

21	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Location Status 3.3.2	PLMN MCC/MNC: 254/002 Note: The ME send the Envelope after registration to the second E- USS/NB-SS, thus might have sent the Envelope also before steps 18/19.
22	$UICC \to ME$	PROACTIVE COMMAND PENDING: REFRESH 3.1.3	
23	$ME \rightarrow UICC$	FETCH	
24	$UICC \to ME$	PROACTIVE COMMAND: REFRESH 3.3.3	Note: Step 26 can occur at any time during execution of steps 25a to 25c
25a	UICC	Void	
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	$ME \rightarrow UICC$	TERMINAL RESPONSE: REFRESH 3.3.2	[normal ending]
27	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
28	ME → E- USS/NB-SS	The ME registers to the first E-USS/NB-SS.	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  Note: The ME send the Envelope after registration to the second USS, thus might have sent the Envelope also before steps 26/27.
30	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 3.2.1	
31	$ME \rightarrow UICC$	FETCH	
32	$UICC \to ME$	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	$USER \to ME$	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

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
DLIX ILV.	0.	00	0.	0.	01	02	02	02	0.	00	0.	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
	0.	00	0.		01	02	02	02	0.	00	0.	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	$USER \to ME$	The ME is switched on	ME will perform Profile Download, USIM and ISIM initialisation
2	ME → NWS	ME activates the required bearer, discoveres P-CSCF and registers with the values from the ISIM to IMS services	For E-UTRAN: The EPS bearer context activation according to the procedures defined in TS 34.229-1 [36], Annex C.2 and C.18 is performed
			For UTRAN: 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 PENDING: REFRESH 4.1.1	To inform the ME that EF_FPLMN shall be reread.
4	$ME \rightarrow UICC$	FETCH	
5	$UICC \to ME$	PROACTIVE COMMAND: REFRESH 4.1.1	EF_FPLMN shall be read by the UE, but this might occur even after the Terminal Response.  An update of EF_FPLMN by the UICC is not
6	ME → UICC	TERMINAL RESPONSE: REFRESH 4.1.1A Or	required in this test. [normal ending]
		TERMINAL RESPONSE: REFRESH 4.1.1B	[additional EFs read]
7	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
8		Continue with steps 1 – 4 of the "Expected Sequence" of test 8.15 of TS 34.229-1 with the following parameters:  REFRESH command: PROACTIVE COMMAND: Refresh 4.2.1 Initial Home Domain name = Updated Home Domain name New IMPI in EF_IMPI= 00101555666@test.3gpp.com New IMPU in record 1 of EF_IMPU= 00101555666@ims.mnc246.mc c081.3gppnetwork.org	The following requirements shall be verified:  1) After step 1 and before step 4 of the  "Expected Sequence" of test 8.15 of TS  34.229-1the ME shall have sent  TERMINAL RESPONSE: REFRESH  4.2.1A or TERMINAL RESPONSE:  REFRESH 4.2.1B  2) The ME shall have fulfilled the test  requieremnts defined in TS 34.229, clause  8.15.5

## 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.

## 27.22.4.7.5 REFRESH (IMSI changing procedure, E-UTRAN)

## 27.22.4.7.5.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.7.5.2 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.

### 27.22.4.7.5.3 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.

#### 27.22.4.7.5.4 Method of test

#### 27.22.4.7.5.4.1 Initial conditions

The ME is connected to the USIM Simulator and connected to the E-USS/NB-SS, registered and has the default PDN connection established.

The E-UTRAN/NB-IoT parameters of the E-USS/NB-SS are:

- Mobile Country Code (MCC) = 246;
- Mobile Network Code (MNC) = 81;
- Tracking Area Code (TAC) = 0001;

The elementary files are coded as the default E-UTRAN/EPC UICC,

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

### 27.22.4.7.5.4.2 Procedure

# Expected Sequence 5.1 (REFRESH, UICC Reset for IMSI Changing procedure, E-UTRAN)

Step	Direction	MESSAGE / Action	Comments
1	UICC→ ME	PROACTIVE COMMAND PENDING: REFRESH 5.1.1	[To inform the ME that IMSI has changed]
2	$ME \rightarrow UICC$	FETCH	
3	UICC → ME	PROACTIVE COMMAND: REFRESH 5.1.1 or 5.1.2	IF terminal supports PD_ Refresh_Enforcement_Policy use PROACTIVE COMMAND: REFRESH 5.1.2, ELSE 5.1.1.
4	ME→E- USS/NB-SS	Deactivate PDN Connection	ME will deactivate the PDN Connection Note: this step is performed locally and may not reflect on the interface to the E-USS/NB-SS Note: if the ME supports pc_NB this step is performed only in case pc_AttachWithPDN is supported by the ME.
5	ME→USS	DETACH REQUEST	Indicates GPRS detach, Note: this step can happen after step 6
6	$ME \rightarrow UICC$	STATUS[P1='02']	ME indicates to USIM that the termination procedure is starting
7	$ME \rightarrow UICC$	ME performs UICC reset	Both cold and warm resets are allowed
8	UICC	Update EF IMSI and EF EPSLOCI	The content of EF IMSI has been changed to "246813579" and the GUTI in EF EPSLOCI is updated to 'FF FF
9	$ME \rightarrow UICC$	ME performs USIM Initialization, including send STATUS[P1='01'] and no TERMINAL RESPONSE shall be sent	[ME resets and performs USIM initialization]
10	ME→ E- USS/NB-SS	ATTACH REQUEST	The ME will register using IMSI "246813579" lin PS.
11 12	USS → ME ME → E- USS/NB-SS	ATTACH ACCEPT ATTACH COMPLETE	

## PROACTIVE COMMAND: REFRESH 5.1.1

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
DLIX-ILV.	00	00	01	00	01	01	0-	02	02	01	02

PROACTIVE COMMAND: REFRESH 5.1.2

# Logically:

Command details

Command number: 1

Command type: REFRESH
Command qualifier: UICC RESET

Device identities

Source device: UICC Destination device: ME

Refresh enforcement policy: Force immediate REFRESH even if the terminal is busy on data call

Coding:

BER-TLV:	D0	0C	81	03	01	01	04	82	02	81	82	3A
	01	02										

# Expected Sequence 5.2 (REFRESH, 3G Session Reset for IMSI Changing procedure, E-UTRAN)

Step	Direction	MESSAGE / Action	Comments
1	UICC→ ME	PROACTIVE COMMAND PENDING: REFRESH 5.2.1	[To inform the ME that IMSI has changed]
2 3	$ME \to UICC$ $UICC \to ME$	FETCH PROACTIVE COMMAND: REFRESH 5.2.1 or 5.2.2	IF terminal supports PD_ Refresh_Enforcement_Policy use PROACTIVE COMMAND: REFRESH 5.2.2, ELSE 5.2.1.
4	ME→E- USS/NB-SS	Deactivate PDN Connection	ME will deactivate the PDN Connection Note 1: this step is performed locally and may not reflect on the interface to the E- USS/NB-SS Note: if the ME supports pc_NB this step is performed only in case pc_AttachWithPDN is supported by the ME Note: this step can be performed in parallel or after step 6.
5	ME→E- USS/NB-SS	DETACH REQUEST	Note: this step can be performed in parallel or after step 6.
6	ME → UICC	STATUS[P1='02']	If A.1/172 is supported, then the ME indicates to USIM that the termination procedure is starting, completes the 3G session termination procedure and resets the application via SELECT by DF name command with the AID.
7	UICC	Update EF IMSI and EF EPSLOCI	The ME performs the USIM initialization. The content of EF IMSI has been updated to "246813579" and GUTI in EF EPSLOCI is updated to 'FF FF FF FF FF FF FF FF FF FF
8	ME → UICC	TERMINAL RESPONSE: REFRESH 5.2.1A Or TERMINAL RESPONSE: REFRESH 5.2.1B	[normal ending]
9	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
10	ME→ E- USS/NB-SS	ATTACH REQUEST	The ME will register using IMSI "246813579" in PS.
11 12	USS → ME ME → E- USS/NB-SS	ATTACH ACCEPT ATTACH COMPLETE	

# PROACTIVE COMMAND: REFRESH 5.2.1

# 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 EPSLOCI

#### 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	E3										

## PROACTIVE COMMAND: REFRESH 5.2.2

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 EPSLOCI

Refresh enforcement policy: Force immediate REFRESH even if the terminal is busy on data call

# Coding:

BER-TLV:	D0	1B	81	03	01	01	06	82	02	81	82	92
_	0D	02	3F	00	7F	FF	6F	07	3F	00	7F	FF
	6F	E3	3A	01	02							

## TERMINAL RESPONSE: REFRESH 5.2.1A

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: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	06	82	02	82	81	83	01	00

TERMINAL RESPONSE: REFRESH 5.2.1B

Logically:

Command details

Command number:

Command type: REFRESH
Command qualifier: 3G Session Reset

Device identities

Source device: ME
Destination device: UICC

Result

General Result: REFRESH performed with additional EFs read

Coding:

BER-TLV:	81	03	01	01	06	82	02	82	81	83	01	03

#### 27.22.4.7.5.5 Test requirement

The ME shall operate in the manner defined in expected sequences 5.1 to 5.2.

## 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 gas 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 Facilities					
Proactive UICC Command Number	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 gas 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 gas 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.

27.22.4.8.8.4 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 gas 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 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 Facilities						
Proactive UICC Command SELECT ITEM Number	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.

278

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.

27.22.4.9.9.5 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 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 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 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/PS, UTRAN/GERAN)

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

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

- CS domain is used to send and receive short messages
- ME supports UTRAN or GERAN

#### CS related procedure:

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

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

- Used Network Simulator (NWS): USS (UMTS System Simulator or System Simulator)
- PS domain is used to send and receive short messages
- ME supports UTRAN or GERAN

#### PS related procedure:

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

#### 27.22.4.10.1.5 Test requirement

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

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

27.22.4.10.2.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.10.2.2 Conformance requirement

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

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

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

27.22.4.10.2.3 Test purpose

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

27.22.4.10.2.4 Method of test

27.22.4.10.2.4.1 Initial conditions

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

27.22.4.10.2.4.2 Procedure

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

UICC → ME   PROACTIVE COMMAND   PROACTIVE C	Step	Direction	MESSAGE / Action	Comments
ME → UICC  ME → UICC  ME → USER  ME → USER  ME → USS  M	1	$UICC \to ME$		
2				
3	2	MF → UICC		
SHORT MESSAGE 2.1.1  ME → USS  ME → USS  ME → USS  Send SMS-PP (SEND SHORT MESSAGE) Message 2.1  SS → ME → UICC  ME → UICC → ME PROACTIVE UICC SESSION END SHORT MESSAGE 2.1.1  ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2  ME → UICC → ME PROACTIVE COMMAND SHORT MESSAGE 2.1.2  ME → USS → ME → USS  ME → USS  ME → USS  ME → USS  ME → USS  ME → USS  ME → USS  ME → USS  ME → USS  ME → USS  ME → USS  ME → USS  ME → USS  ME → UICC  ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.2  ME → USS  ME → USS  ME → USS  ME → USS  ME → UICC  ME → UICC → ME  ME → UICC  ME → UICC  ME → UICC → ME  ME → UICC   ME  ME → UICC  ME → UICC → ME  PROACTIVE UICC SESSION ENDED  SHORT MESSAGE 2.1.3  ME → UICC  ME → UICC → ME  PROACTIVE UICC SESSION ENDED  ME → UICC  ME → UICC → ME  PROACTIVE UICC SESSION ENDED  ME → UICC  ME → UICC → ME  PROACTIVE UICC SESSION ENDED  SHORT MESSAGE 2.1.3  ME → UICC  ME → USS  ME → UICC  ME → USS			_	[packing not required, 16-bit data]
5 ME → USS  ME → USS → ME  Send SMS-PP (SEND SHORT MESSAGE) Message 2.1  ME → UICC → ME  PROACTIVE UICC SESSION ENDED  PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2  Display "3ДРАВСТВУЙТЕ"  ME → UICC  13 ME → USS  ME → UICC  14 USS → ME  ME → UICC  ME → UICC  ME → UICC  ME → UICC  ME → USSAGE 2.1.2  Display "3ДРАВСТВУЙТЕ"  ME → UICC  ME → USSAGE 2.1.2  Display "3ДРАВСТВУЙТЕ"  ME → UICC   ME  PROACTIVE UICC SESSION ENDED  PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  ME → UICC  ME → UICC → ME  PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  ME → UICC → ME  PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  ME → UICC → ME  NESSAGE 2.1.3  ME → UICC  ME → USER  Display "3ДРАВСТВУЙТЕ"  AND → UICC → ME  PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  ME → UICC  ME → USER  Display "3ДРАВСТВУЙТЕ"  AND → USER  Display "3ДРАВСТВУЙТЕ"  AND → UICC → ME  PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3  ME → UICC  ME → USER  Display "3ДРАВСТВУЙТЕ"  AND → USER  Display "3ДРАВСТВУЙТЕ"  AND → USER  Display "3ДРАВСТВУЙТЕ"  AND → USER  Display "3ДРАВСТВУЙТЕ"  AND → USER  DISPLAY MESSAGE MESSAGE 2.1.3  AND → USER  AND →			SHORT MESSAGE 2.1.1	
5 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.1  6 USS → ME ME → UICC SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  8 UICC → ME PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2  10 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2  11 ME → USER DESTRICT MESSAGE 2.1.2  12 ME → USER DESTRICT MESSAGE 2.1.2  13 ME → USS Send SMS-PP (SEND SHORT MESSAGE 2.1.2  14 USS → ME ME → UICC SMS RP-ACK SHORT MESSAGE 2.1.1  15 ME → UICC → ME PROACTIVE UICC SESSION SHORT MESSAGE 2.1.1  16 UICC → ME PROACTIVE UICC SESSION SHORT MESSAGE 2.1.1  17 UICC → ME PROACTIVE UICC SESSION ENDED SHORT MESSAGE 2.1.3  18 ME → UICC → ME PROACTIVE UICC SESSION ENDED SHORT MESSAGE 2.1.3  18 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC → ME SHORT MESSAGE 2.1.3  19 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  10 ME → USER DESTRICT MESSAGE 2.1.3  11 ME → USER DESTRICT MESSAGE 2.1.3  12 ME → USER DESTRICT MESSAGE 2.1.3  13 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  16 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  19 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  10 ME → USER DESTRICT MESSAGE 2.1.3  11 ME → USER DESTRICT MESSAGE 2.1.3  12 DISPRICT MESSAGE 2.1.3  13 DISPRICT MESSAGE 2.1.3  14 USS → ME → UICC SESSION MESSAGE 2.1.3  15 DISPRICT MESSAGE 2.1.3  16 DISPRICT MESSAGE 2.1.3  17 UICC → ME PROACTIVE UICC SESSION MESSAGE 2.1.3  18 ME → UICC → ME PROACTIVE UICC SESSION MESSAGE 2.1.3  19 DISPRICT MESSAGE 2.1.3  10 DISPRICT MESSAGE 2.1.3  10 DISPRICT MESSAGE 2.1.3  11 DISPRICT MESSAGE 2.1.3  12 DISPRICT MESSAGE 2.1.3  13 DISPRICT MESSAGE 2.1.3  14 USS → ME → UICC MESSAGE 2.1.3  15 DISPRICT MESSAGE 2.1.3  16 DISPRICT MESSAGE 2.1.3  17 DISPRICT MESSAGE 2.1.3  18 DISPRICT MESSAGE 2.1.3  18 DISPRICT MESSAGE 2.1.3  19 DISPRICT MESSAGE 2.1.3  10 DISPRICT MESSAGE 2.1.3  10 DISPRICT MESSAGE 2.1.3  10 DISPRICT	4	$ME \rightarrow USER$	Display "ЗДРАВСТВУЙТЕ"	
Send SMS-PP (SEND SHORT MESSAGE) Message 2.1  8 UICC → ME DICC HE DENORT MESSAGE 2.1.1  8 UICC → ME DICC HE DENORE SEND SHORT MESSAGE 2.1.1  10 ME → UICC HE DENORE SEND SHORT MESSAGE 2.1.2  11 UICC → ME DENORE SEND SHORT MESSAGE 2.1.2  12 ME → UICC HE DICC HE DICC HE DICC → ME DENORE SEND SHORT MESSAGE 2.1.2  13 ME → USS SEND SHORT MESSAGE 2.1.2  14 USS → ME ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  15 ME → UICC HE DICC				
MESSAGE) Message 2.1  SMS RP-ACK  TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  DICC → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  PROACTIVE UICC SESSION ENDED  PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2  Display "3ДРАВСТВУЙТЕ"  ME → USS  ME → UICC  ME → UICC  ME → UICC  ME → UICC  ME → USER  ME → USER  ME → USER  ME → USER  ME → UICC   ME  PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  FETCH  UICC → ME  PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  FETCH  UICC → ME  ME → UICC  ME → ME → UICC  ME	5	MF → USS	Send SMS-PP (SEND SHORT	
TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1    TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1   The UE'shall have updated Last-Used-TP-MR of EF SMSS to "01"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "01"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "01"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "01"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "01"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "01"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "01"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "01"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "02"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "02"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "02"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "02"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "02"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "02"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     The UE'shall have updated Last-Used-TP-MR of EF SMSS to "03"     Th		/ 555		
SHORT MESSAGE 2.1.1  8 UICC → ME PROACTIVE UICC SESSION ENDED  9 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2  10 ME → UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.2  11 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.2  12 ME → USS  13 ME → USS  14 USS → ME MESSAGE 9.1.2  15 ME → UICC  16 UICC → ME PROACTIVE UICC SESSION ENDED  17 UICC → ME PROACTIVE UICC SESSION ENDED  18 ME → UICC  19 UICC → ME PROACTIVE UICC SESSION ENDED  17 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC  19 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC  19 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC  19 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3  18 DISPIAN "3ДРАВСТВУЙТЕ"  19 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3  10 ME → USS  20 ME → USS  21 ME → USS  22 USS → ME MESSAGE 2.1.1  23 ME → UICC  24 UICC → ME PROACTIVE UICC SESSION ENDEDSHORT MESSAGE 2.1.1  25 Send SMS-PP (SEND SHORT MESSAGE 2.1.1  26 COMMAND: SEND SHORT MESSAGE 2.1.3  27 ME → USS  28 SMS RP-ACK  29 USC → ME  20 ME → UICC  20 ME → UICC  21 ME → USS  22 USS → ME  23 ME → UICC  24 UICC → ME PROACTIVE UICC SESSION  25 FINANCIAN PROBLEM TO THE STAND SHORT MESSAGE 2.1.1  26 COMMAND: SEND SHORT MESSAGE 2.1.1  27 ME → USS  28 SMS RP-ACK  19 UICC → ME  29 UICC → ME  20 ME → USS  20 ME → USS  21 ME → USS  22 USS → ME  23 ME → UICC  34 ME → UICC  35 ME → UICC  36 ME → UICC  37 ME → USS  36 ME → UICC  37 ME → USS  38 ME → UICC  48 ME → UICC  49 ME → UICC  40 ME → UICC → ME  40 ME → UICC  41 ME → USS  41 ME → UICC  41 ME → USS  42 UICC → ME  41 ME → UICC  42 ME → UICC  43 ME → UICC  44 UICC → ME  44 UICC → ME  45 ME → UICC  46 ME → UICC  47 ME → UICC  48 ME → UICC  49 ME → UICC  40 ME → UICC  40 ME → UICC  40 ME → UICC  41 ME → UICC  41 ME → UICC  41 ME → UICC  42 ME → UICC  43 ME → UICC  44 ME → UICC  45 ME → UICC  46 ME → UICC  47 ME → UICC  48 ME → UICC  49 ME → UICC  40 ME → UICC  40 ME → UICC  41 ME → UICC  41 ME → UICC  41 ME → UICC  41				
8 UICC → ME PROACTIVE UICC SESSION ENDED 9 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2 10 ME → UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.2 11 ME → USS 13 ME → USS 14 USS → ME ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE) Message 2.2 14 ME → UICC → ME PROACTIVE UICC SESSION ENDED 15 UICC → ME PROACTIVE UICC SESSION ENDED 16 UICC → ME PROACTIVE UICC SESSION ENDED 17 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 18 ME → UICC ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 19 UICC → ME PROACTIVE COMMAND SEND SHORT MESSAGE 2.1.3 20 ME → USS 3 ME → USS 3 ME → USS 3 ME → USS 3 SMS RP-ACK 21 ME → USS 3 SMS RP-ACK 22 USS → ME ME → UICC 3 ME → UICC ME PROACTIVE COMMAND: SEND SHORT MESSAGE) Message 2.3 3 ME → USS 3 MS RP-ACK 4 USS → ME ME → UICC 5 ME PROACTIVE COMMAND SHORT MESSAGE) Message 2.3 5 Send SMS-PP (SEND SHORT MESSAGE) Message 2.3 5 SMS RP-ACK 6 (Command performed successfully) The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"  10 DISPLAY THE MESSAGE 2.1.1 21 ME → USS 3 SMS RP-ACK 3 ME → UICC ME PROACTIVE UICC SESSION THE UICC SESSION THE UICC SHALL RESPONSE: SEND SHORT MESSAGE 2.1.1 3 ME → USS 4 ME → UICC ME PROACTIVE UICC SESSION THE UICC SHALL RESPONSE: SEND SHORT MESSAGE 2.1.1 4 UICC → ME PROACTIVE UICC SESSION THE UICC SHALL RESPONSE: SEND SHORT MESSAGE 2.1.1 4 DISPLAY THE MESSAGE 2.1.1 5 OF THE MESSAGE 2.1.2	7	$ME \rightarrow UICC$		
8 UICC → ME PROACTIVE UICC SESSION ENDED 9 UICC → ME PROACTIVE COMMAND PROBING: SEND SHORT MESSAGE 2.1.2 10 ME → UICC FETCH PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.2 11 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.2 12 ME → USSR DISPlay "3ДРАВСТВУЙТЕ" [Alpha Identifier] "Hello" in Russian, 0x81 coding of UCS2 format 13 ME → UICC SMS RP-ACK ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE) Message 2.2 14 UICC → ME PROACTIVE UICC SESSION ENDED SHORT MESSAGE 2.1.1 16 UICC → ME PROACTIVE UICC SESSION ENDED SHORT MESSAGE 2.1.3 17 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 18 ME → UICC FETCH PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 18 DISPLAY "3ДРАВСТВУЙТЕ" [UICS 2 alphabet] [UCS2 alphabet] [UCS2 alphabet] [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  18 ME → UICC ME SEND SHORT MESSAGE 2.1.3 20 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3 21 ME → USS SEND SHORT MESSAGE 2.1.1 22 USS → ME ME → UICC ME → UICC ME →			SHORT MESSAGE 2.1.1	
9 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.2 10 ME → UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.2 11 ME → USS 12 ME → USS 13 ME → USS 14 USS → ME ME → UICC 15 ME → UICC 16 ME → UICC 17 UICC → ME 18 ME → UICC 18 PROACTIVE UICC SESSION END SHORT MESSAGE 2.1.1 19 UICC → ME PROACTIVE UICC SESSION ENDING: SEND SHORT MESSAGE 2.1.3 18 ME → UICC 19 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 18 ME → UICC 19 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 18 ME → UICC 19 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 20 ME → USS 21 ME → USS 22 USS → ME ME → UICC 23 ME → USS 24 USC → ME PROACTIVE SEND SHORT MESSAGE 2.1.1 25 Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format	8	$UICC \rightarrow ME$	PROACTIVE UICC SESSION	OF ET GIVIGO TO OT
PENDING: SEND SHORT MESAGE 2.1.2  12 ME → USER  13 ME → USER  14 USS → ME 15 ME → UICC  16 UICC → ME 17 UICC → ME 17 UICC → ME 18 ME → UICC  19 UICC → ME 19 UICC → ME 10 UICC → ME 11 UICC → ME 12 ME → UICC  13 ME → USS  14 USS → ME 15 ME → UICC  15 ME → UICC  16 UICC → ME 17 UICC → ME 18 ME → UICC  19 UICC → ME 19 UICC → ME 10 UICC → ME 11			ENDED	
MESSAGE 2.1.2 FETCH PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.2  Display "3ДPABCTBYЙTE"  ME → USER  ME → UICC   ME  PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  ME → UICC  ME → USER  ME → UICC  ME → USER  ME → USER  ME → USER  ME → UICC  ME → USER  ME → UICC  ME → USER  ME → USER  ME → USER  ME → UICC	9	$UICC \to ME$		
10 ME → UICC 11 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.2 12 ME → USER 13 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.2 14 USS → ME SMS RP-ACK 15 ME → UICC 16 UICC → ME PROACTIVE UICC SESSION ENDED 17 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 18 ME → UICC 19 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 20 ME → USER 21 ME → USER 22 USS → ME ME → USER 23 ME → UICC 24 UICC → ME PROACTIVE SEND SHORT MESSAGE) Message 2.3 25 USS → ME ME → UICC 26 ME → UICC 27 ME → USER 28 ME → UICC 29 ME → USER 29 ME → UICC 20 ME → USER 20 ME → USER 21 ME → USER 22 USS → ME ME → UICC 23 ME → UICC 24 UICC → ME PROACTIVE UICC SESSION END SHORT MESSAGE) Message 2.3 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → USER 22 USS → ME ME → UICC 23 ME → UICC 24 UICC → ME PROACTIVE UICC SESSION 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME → UICC 23 ME → UICC 24 UICC → ME PROACTIVE UICC SESSION 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME → UICC 23 ME → UICC 24 ME → UICC 25 ME → UICC 26 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME → UICC 23 ME → UICC 24 ME → UICC 25 ME → UICC 26 ME → UICC 26 ME → UICC 27 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME → UICC 23 ME → UICC 24 ME → UICC 25 ME → UICC 26 ME → UICC 26 ME → UICC 27 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME → UICC 23 ME → UICC 24 ME → UICC 24 ME → UICC 25 ME → UICC 26 ME → UICC 26 ME → UICC 26 ME → UICC 27 ME → UICC 27 ME → UI				
11 UICC → ME SHORT MESSAGE 2.1.2  12 ME → USS Display "3ДPABCTBYЙTE"  13 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.2  14 USS → ME ME → UICC SESSION SHORT MESSAGE 2.1.1  16 UICC → ME PROACTIVE UICC SESSION ENDING: SEND SHORT MESSAGE 2.1.1  17 UICC → ME PROACTIVE UICC SESSION ENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  19 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3  20 ME → USS Display "3ДPABCTBYЙTE"  19 UICC → ME SEND SHORT MESSAGE 2.1.3  20 ME → USS Display "3ДPABCTBYЙTE"  10 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3  21 ME → USS DISPLAY "3LPABCTBYЙTE"  22 USS → ME ME → UICC SEND SHORT MESSAGE 2.1.1  23 ME → UICC MESSAGE 2.1.1  24 UICC → ME PROACTIVE UICC SESSION END SHORT MESSAGE 2.1.1  25 Command performed successfully The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"	10	ME → UICC		
12 ME → USER Display "3ДРАВСТВУЙТЕ" [Alpha Identifier] "Hello" in Russian, 0x81 coding of UCS2 format  13 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.2 SMS RP-ACK  15 ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  16 UICC → ME PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 FETCH PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3 Display "3ДРАВСТВУЙТЕ" [UCS2 alphabet] [UCS2 alphabet] "Hello" in Russian, 0x82 coding of UCS2 format  20 ME → USER Send SMS-PP (SEND SHORT MESSAGE) Message 2.3 SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE) Message 2.3 SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"				
13 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.2 SMS RP-ACK 15 ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  16 UICC → ME PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC 19 UICC → ME PROACTIVE COMMAND SHORT MESSAGE 2.1.3  18 ME → UICC 19 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3  20 ME → USER  17 ME → USER 18 ME → UICC 19 UICC → ME SHORT MESSAGE 2.1.3  20 ME → USER 19 USER 10 ME → USER 11 ME → USER 12 ME → USER 13 ME → USER 14 ME → USER 15 ME → USER 16 (Command performed successfully) 17 (IUCS alphabet) 18 (Alpha Identifier) 19 (IUCS alphabet) 19 (IUCS alphabet) 10 (IUCS alphabet) 10 (IUCS alphabet) 11 (IUCS alphabet) 12 (IUCS alphabet) 13 (IUCS alphabet) 14 (IUCS alphabet) 15 (IUCS alphabet) 16 (IUCS alphabet) 17 (IUCS alphabet) 18 (IUCS alphabet) 19 (IUCS alphabet) 19 (IUCS alphabet) 10 (IUCS alphabet) 10 (IUCS alphabet) 11 (IUCS alphabet) 11 (IUCS alphabet) 12 (IUCS alphabet) 13 (IUCS alphabet) 14 (IUCS alphabet) 15 (IUCS alphabet) 16 (IUCS alphabet) 17 (IUCS alphabet) 18 (IUCS alphabet) 19 (IUCS alphabet) 19 (IUCS alphabet) 10 (IUCS alphabet) 10 (IUCS alphabet) 11 (IUCS alphabet) 11 (IUCS alphabet) 12 (IUCS alphabet) 13 (IUCS alphabet) 14 (IUCS alphabet) 15 (IUCS alphabet) 16 (IUCS alphabet) 17 (IUCS alphabet) 18 (IUCS alphabet) 19 (IUCS alphabet) 19 (IUCS alphabet) 10 (IUCS alphabet) 10 (IUCS alphabet) 11 (IUCS alphabet) 11 (IUCS alphabet) 12 (IUCS alphabet) 13 (IUCS alphabet) 14 (IUCS alphabet) 15 (IUCS alphabet) 16 (IUCS alphabet) 16 (IUCS alphabet) 17 (IUCS alphabet) 18 (IUCS alphabet) 19 (IUCS alphabet) 19 (IUCS alphabet) 19 (IUCS alphabet) 10 (IUCS alphabet) 10 (IUCS alphabet) 10 (IUCS alphabet) 11 (IUCS alphabet) 11 (IUCS alphabet) 12 (IUCS alphabet) 13 (IUCS alphabet) 14 (IUCS alphabet) 14 (IUCS alphabet) 15 (IUCS alphabet) 16 (IUCS alphabet) 16 (IUCS alphabet) 17 (IUCS alphabet) 18 (IUCS alphabet) 18 (IUCS alphabet) 19 (IUCS alphabet) 19 (IUCS alphabet) 10 (IUCS alphabet) 10 (IUCS alphabet) 10 (IUCS alphabet) 10 (IUCS alp				
13 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.2  14 USS → ME SMS RP-ACK  15 ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  16 UICC → ME PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC FTCH PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3  20 ME → USER Display "3ДРАВСТВУЙТЕ" [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  21 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3  22 USS → ME SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  24 UICC → ME PROACTIVE UICC SESSION  BORT MESSAGE 2.1.1  [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"	12	$ME \rightarrow USER$	Display "ЗДРАВСТВУИТЕ"	
13 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.2 SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  16 UICC → ME PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 FETCH 19 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3 Display "3ДРАВСТВУЙТЕ" [UCS2 alphabet] [UCS2 alphabet] [UCS2 alphabet] [Hello" in Russian, 0x82 coding of UCS2 format  21 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3 SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"				
14 USS → ME ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  16 UICC → ME PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 FETCH PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3 Display "3ДРАВСТВУЙТЕ" [UCS2 alphabet] [UCS2 alphabet] [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  20 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3 SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"  24 UICC → ME PROACTIVE UICC SESSION	13	$ME \to USS$	Send SMS-PP (SEND SHORT	Tomat
15 ME → UICC  TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  16 UICC → ME PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC 19 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3  20 ME → USER Display "3ДРАВСТВУЙТЕ"  ME → USER  WE → USER USS → ME ME → UICC  ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3  SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"				
SHORT MESSAGE 2.1.1  The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"  The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"  The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"				[Compressed in order was a disconnectivity of
16 UICC → ME PROACTIVE UICC SESSION ENDED  17 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3 FETCH  19 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3 Display "3ДРАВСТВУЙТЕ"  20 ME → USER Display "3ДРАВСТВУЙТЕ"  21 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3 SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"	15	ME → UICC		
17			STORE MESONS EITH	
17				
17 UICC → ME PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  18 ME → UICC FETCH PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3  20 ME → USER Display "3ДРАВСТВУЙТЕ" [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  21 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3  22 USS → ME ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  24 UICC → ME PROACTIVE UICC SESSION  PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 2.1.3  [UCS2 alphabet]  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"	16	$UICC \to ME$		
PENDING: SEND SHORT MESSAGE 2.1.3  PENDING: SEND SHORT MESSAGE 2.1.3  PENDING: SEND SHORT MESSAGE 2.1.3  PENDING: SEND SHORT MESSAGE 2.1.3  PENDING: SEND SHORT MESSAGE 2.1.3  PENDING: SEND SHORT MESSAGE 2.1.3  PENDING: SEND SHORT MESSAGE 2.1.3  [UCS2 alphabet]  [Alpha Identifier]  "Hello" in Russian, 0x82 coding of UCS2 format  [Commat Promator Successfully]  The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"  PENDING: SEND SHORT MESSAGE 2.1.1  [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"	17	UICC → ME		
18 ME → UICC   FETCH   PROACTIVE COMMAND: SEND   SHORT MESSAGE 2.1.3   Display "3ДРАВСТВУЙТЕ"   [UCS2 alphabet]   [Alpha Identifier]   "Hello" in Russian, 0x82 coding of UCS2 format   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   24 UICC → ME   PROACTIVE UICC SESSION   ICS2 alphabet]   [UCS2 alphabet]   [UCS2 alphabet]   [UCS2 alphabet]   [UCS2 alphabet]   [UCS2 alphabet]   [Alpha Identifier]   "Hello" in Russian, 0x82 coding of UCS2 format   [Command performed successfully]   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"   [Command performed successfully]   [Command per	''	OIGG / IVIE		
19 UICC → ME PROACTIVE COMMAND: SEND SHORT MESSAGE 2.1.3 20 ME → USER Display "3ДРАВСТВУЙТЕ" [Alpha Identifier] 21 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3 22 USS → ME ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"	4.0			
20 ME → USER SHORT MESSAGE 2.1.3 Display "3ДРАВСТВУЙТЕ"  21 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3 SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"  24 UICC → ME PROACTIVE UICC SESSION				[LICS2 alphabat]
20 ME → USER Display "3ДРАВСТВУЙТЕ"  21 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3  22 USS → ME ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  24 UICC → ME PROACTIVE UICC SESSION  [Alpha Identifier] "Hello" in Russian, 0x82 coding of UCS2 format  [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"	19			[UCO2 alphabet]
21 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3 22 USS → ME ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  24 UICC → ME PROACTIVE UICC SESSION  "Hello" in Russian, 0x82 coding of UCS2 format  "Hello" in Russian, 0x82 coding of UCS2 format  [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"	20	$ME \rightarrow USER$		[Alpha Identifier]
21 ME → USS Send SMS-PP (SEND SHORT MESSAGE) Message 2.3  22 USS → ME SMS RP-ACK TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1  24 UICC → ME PROACTIVE UICC SESSION				"Hello" in Russian, 0x82 coding of UCS2
22 USS → ME SSAGE) Message 2.3 SMS RP-ACK  ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"  24 UICC → ME PROACTIVE UICC SESSION	24	ME	Cond CMC DD (CEND CLIODE	format
22 USS → ME ME → UICC SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03" [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"	21	ME → USS		
23 ME → UICC TERMINAL RESPONSE: SEND SHORT MESSAGE 2.1.1 [Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"  24 UICC → ME PROACTIVE UICC SESSION	22	$USS \to ME$		
of EF SMSS to "03"  24 UICC → ME PROACTIVE UICC SESSION			TERMINAL RESPONSE: SEND	
24 UICC → ME PROACTIVE UICC SESSION			SHORT MESSAGE 2.1.1	
	1			OF EF SMSS to "U3"
	24	UICC → MF	PROACTIVE UICC SESSION	
		3.00 /2		

PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.1

Logically:

Command details

Command number:

Command type: SEND SHORT MESSAGE 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 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

ТР-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	80	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 0 TP-UDL 24

TP-UD "ЗДРАВСТВУЙТЕ"

#### Coding:

Coding	01	01	09	91	10	32	54	76	F8	40	80	18
	04	17	04	14	04	20	04	10	04	12	04	21
	04	22	04	12	04	23	04	19	04	22	04	15

#### SMS-PP (SEND SHORT MESSAGE) Message 2.2

#### Logically:

**SMS TPDU** 

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "02"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class 0 TP-UDL 24

TP-UD "ЗДРАВСТВУЙТЕ"

#### Coding:

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

### SMS-PP (SEND SHORT MESSAGE) Message 2.3

### Logically:

#### SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "03"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class 0 TP-UDL 24

TP-UD "ЗДРАВСТВУЙТЕ"

### Coding:

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

#### PROACTIVE COMMAND: SEND SHORT MESSAGE: 2.1.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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

ТР-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 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

ТР-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	80	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:

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-TL	.V:	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
		MESSAGE 3.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[packing not required, 8-bit data]
		SHORT MESSAGE 3.1.1	
4	$ME \rightarrow USER$	Displays the icon and not the alpha	[basic icon self-explanatory]
		identifier	·
5	$ME \to USS$	Send SMS-PP (SEND SHORT	
		MESSAGE) Message 3.1	
6	$USS \to ME$	SMS RP-ACK	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		SHORT MESSAGE 3.1.1A	

#### 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 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 coding8bit-dataMessage classclass 0TP-UDL12

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 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:

Command type: SEND SHORT MESSAGE 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
		MESSAGE 3.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[packing not required, 8-bit data, basic icon
		SHORT MESSAGE 3.1.1	self-explanatory]]
4	$ME \rightarrow USER$	Displays the alpha identifier	·
		without the icon	
5	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT	
		MESSAGE) Message 3.1	
6	$USS \to ME$	SMS RP-ACK	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully, but
		SHORT MESSAGE 3.1.1B	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 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:

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

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 3.2.1

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE packing not required

Device identities

Source device: UICC
Destination device: Network
Alpha Identifier "Send SM"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 8bit-data Message class class 0 TP-UDL 12

TP-UD "Test Message"

Icon Identifier

Icon Qualifier non-self-explanatory

Icon Identifier 1 (number of record in EF IMG)

#### Coding:

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

#### SMS-PP (SEND SHORT MESSAGE) Message 3.2

#### Logically:

**SMS TPDU** 

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "01"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 8-bit data
Message class class 0
TP-UDL 12

TP-UD "Test Message"

#### Coding:

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

#### TERMINAL RESPONSE: SEND SHORT MESSAGE 3.2.1A

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

|--|

### 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
		MESSAGE 3.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[packing not required, 8-bit data, basic icon
		SHORT MESSAGE 3.2.1	non-self-explanatory ]
4	$ME \rightarrow USER$	display "Send SM" without the icon	
5	$ME \to USS$	Send SMS-PP (SEND SHORT	
		MESSAGE) Message 3.2	
6	$USS \to ME$	SMS RP-ACK	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully, but
		SHORT MESSAGE 3.2.1B	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 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
		MESSAGE 4.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.1	[packing not required, SMS default alphabet]
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with left alignment]
5	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	$USS \to ME$	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01"
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.1.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.2	[packing not required, SMS default alphabet]
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/11, no alignment change will take place]
12	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 4.2	
13	$USS \to ME$	SMS RP-ACK	
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.1.1

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 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 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 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 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 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 0
TP-UDL 1
TP-UD " "

#### Coding:

Coding 01 0	01 02 91	10 40	F0 01	20
-------------	----------	-------	-------	----

#### SMS-PP (SEND SHORT MESSAGE) Message 4.2

#### Logically:

#### SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "02"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class 0
TP-UDL 1
TP-UD " "

#### Coding:

Coding	01	02	02	91	10	40	F0	01	20

#### SMS-PP (SEND SHORT MESSAGE) Message 4.3

#### Logically:

#### SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "03"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

**TP-DCS** 

Message coding SMS default alphabet

Message class class 0
TP-UDL 1
TP-UD " "

Coding:

Coding	01	03	02	91	10	40	F0	01	20

#### SMS-PP (SEND SHORT MESSAGE) Message 4.4

#### Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "04"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class class 0
TP-UDL 1
TP-UD " "

Coding:

Coding	01	04	02	91	10	40	F0	01	20

#### TERMINAL RESPONSE: SEND SHORT MESSAGE 4.1.1

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 83	82   81	83	01	00	l
----------------------------------	---------	----	----	----	---

#### 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.1	[packing not required, SMS default alphabet]
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with center alignment]
5	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	$USS \to ME$	SMS RP-ACK	
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01"
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.2.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.2	[packing not required, SMS default alphabet]
11	$ME \to USER$	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	$ME \to USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 4.2	
13	$USS \to ME$	SMS RP-ACK	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.2.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.2.1

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 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 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 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 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

SEND SHORT MESSAGE Command type: 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)

Definition and applicability 27.22.4.10.4.3.1

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

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.3.1

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 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

class 0 Message class TP-UDL

TP-UD " " Text Attribute

> Formatting position: 0 Formatting length: 16

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

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:

Command type: SEND SHORT MESSAGE packing not required

Command qualifier:

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

"ISDN / telephone numbering plan" NPI

"01" Address value

TP-PID Short message type 0

**TP-DCS** 

Message coding SMS default alphabet

class 0 Message class 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:

Command type: SEND SHORT MESSAGE Command qualifier: packing not required

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

#### 27.22.4.10.4.3.5 Test requirement

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

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

27.22.4.10.4.4.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.10.4.4.2 Conformance requirement

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

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

#### 27.22.4.10.4.4.3 Test purpose

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

27.22.4.10.4.4.4 Method of test

#### 27.22.4.10.4.4.4.1 Initial conditions

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

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

#### 27.22.4.10.4.4.4.2 Procedure

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

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.4.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 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 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 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 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 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:

Command type: SEND SHORT MESSAGE 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
DLIX-ILV.	01	03	Οī	13	00	02	02	02	01	ಂ	Οī	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	$UICC \to ME$	PROACTIVE COMMAND					
		PENDING: SEND SHORT					
	ME	MESSAGE 4.5.1					
2 3	$ME \rightarrow UICC$ $UICC \rightarrow ME$	FETCH PROACTIVE COMMAND: SEND	[packing not required, SMS default alphabet]				
٦		SHORT MESSAGE 4.5.1	[packing not required, Sind default alphabet]				
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with small font size]				
5	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1					
6	$USS \to ME$	SMS RP-ACK					
7	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01"				
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.2					
9	$ME \rightarrow UICC$	FETCH					
10	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.2	[packing not required, SMS default alphabet]				
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with normal font size]				
12	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 4.2					
13	$USS \to ME$	SMS RP-ACK					
14	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"				
15	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.1					
16	ME → UICC	FETCH					
17	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1	[packing not required, SMS default alphabet]				
18	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with small font size]				
19	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 4.3					
20	$USS \to ME$	SMS RP-ACK					
21	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"				
22	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.5.3					
23	ME → UICC	FETCH					
24	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.3	[packing not required, SMS default alphabet]				
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Message shall be formatted with normal font size]				
26	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 4.4					
27	$USS \to ME$	SMS RP-ACK					
28	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "04"				

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 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	80	B4		

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.5.2

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 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 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	FΩ	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.5.1

Logically:

Command details

Command number:

Command type: SEND SHORT MESSAGE 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
D	Ŭ.		<b>.</b>			U-			<b>.</b>			

#### 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
	NAT 11100	MESSAGE 4.6.1	
2 3	ME → UICC	FETCH	[nacking not required CMC default alphabet]
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1	[packing not required, SMS default alphabet]
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
5	ME → USS	Send SMS-PP (SEND SHORT	[Meddage driali be formatted with bold on]
	WIE 7 000	MESSAGE) Message 4.1	
6	$USS \to ME$	SMS RP-ACK	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR
		SHOKT WESSAGE 4.0.1	of EF SMSS to "01"
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
	ME	MESSAGE 4.6.2 FETCH	
9 10	$ME \rightarrow UICC$ $UICC \rightarrow ME$	PROACTIVE COMMAND: SEND	[packing not required, SMS default alphabet]
10		SHORT MESSAGE 4.6.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with bold off]
12	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT	
40	1100 145	MESSAGE) Message 4.2	
13 14	USS → ME	SMS RP-ACK TERMINAL RESPONSE: SEND	[Command parformed augagestully]
14	$ME \rightarrow UICC$	SHORT MESSAGE 4.6.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR
			of EF SMSS to "02"
15	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
1		MESSAGE 4.6.1	
16	ME → UICC	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1	[packing not required, SMS default alphabet]
18	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with bold on]
19	$ME \to USS$	Send SMS-PP (SEND SHORT	
00		MESSAGE) Message 4.3	
20 21	USS → ME	SMS RP-ACK	[Command parformed augagestully]
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SHORT MESSAGE 4.6.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR
		OFFICIAL MESOAGE 4.0.1	of EF SMSS to "03"
22	$UICC \to ME$	PROACTIVE COMMAND	of El Gines to Go
		PENDING: SEND SHORT	
		MESSAGE 4.6.3	
23	$ME \rightarrow UICC$	FETCH	
24	$UICC \to ME$	PROACTIVE COMMAND: SEND	[packing not required, SMS default alphabet]
25	$ME \rightarrow USER$	SHORT MESSAGE 4.6.3 Display "Text Attribute 3"	[Message shall be formatted with bold off]
26	ME → USS	Send SMS-PP (SEND SHORT	[seeage onan se formation with sold on]
	IVIL 7000	MESSAGE) Message 4.4	
27	$USS \to ME$	SMS RP-ACK	
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		SHORT MESSAGE 4.6.1	The UE shall have updated Last-Used-TP-MR
			of EF SMSS to "04"

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.6.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.7.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "01"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class 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 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 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 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 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 0	13 00	82 02	82 81	83 0	
------------------	-------	-------	-------	------	--

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.8.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 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 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 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 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:

Command type: SEND SHORT MESSAGE 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
D	Ŭ.		<b>.</b>			U-			<b>.</b>			

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

PROACTIVE COMMAND: SEND SHORT MESSAGE 4.9.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 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 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 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 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 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	FΩ	01	20								

TERMINAL RESPONSE: SEND SHORT MESSAGE 4.9.1

Logically:

Command details

Command number:

Command type: SEND SHORT MESSAGE 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
D	Ŭ.		<b>.</b>			U-			<b>.</b>			

#### 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
		MESSAGE 4.10.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.1	[packing not required, SMS default alphabet]
4	$ME \rightarrow USER$		[Message shall be formatted with foreground and background colour according to text
5	NAT 1100	Cand CMC DD (CEND CHODE	attribute configuration]
5	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 4.1	
6	$USS \to ME$	SMS RP-ACK	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		SHORT MESSAGE 4.10.1	The UE shall have updated Last-Used-TP-MR of EF SMSS to "01"
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 4.10.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.2	[packing not required, SMS default alphabet]
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with ME's default foreground and background colour]
12	$ME \to USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 4.2	
13	$USS \to ME$	SMS RP-ACK	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		SHORT MESSAGE 4.10.1	The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 4.10.1

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 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 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 packing not required

Device identities

Source device: ME Destination device: UICC

Result

General Result: Command performed successfully

Coding:

#### 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
2	ME	MESSAGE 5.1.1	
2	$ME \rightarrow UICC$ $UICC \rightarrow ME$	FETCH PROACTIVE COMMAND: SEND	[packing not required, 16-bit data]
3	UICC → IVIE	SHORT MESSAGE 5.1.1	[packing not required, 10-bit data]
4	$ME \rightarrow USER$	Display "中一"	[Alpha Identifier]
	, , , , , , , , , , , , , , , , , , ,	Display +	"Middle 1" in Chinese, 0x80 coding of UCS2
			format
5	$ME \to USS$	Send SMS-PP (SEND SHORT	
		MESSAGE) Message 5.1	
6 7	USS → ME	SMS RP-ACK TERMINAL RESPONSE: SEND	[Command performed successfully]
/	$ME \rightarrow UICC$	SHORT MESSAGE 5.1.1	The UE shall have updated Last-Used-TP-MR
		SHORT WESSAGE 3.1.1	of EF SMSS to "01"
8	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
9	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT MESSAGE 5.1.2	
10	ME → UICC	FETCH	
11	$UICC \rightarrow ME$	PROACTIVE COMMAND SEND	
	0.00 /	SHORT MESSAGE 5.1.2	
12	$ME \to USER$	Display "中一"	[Alpha Identifier]
		1 27 .	"Middle 1" in Chinese, 0x81 coding of UCS2
13	ME LICC	Send SMS-PP (SEND SHORT	format
13	$ME \rightarrow USS$	MESSAGE) Message 5.2	
14	$USS \to ME$	SMS RP-ACK	
15	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		SHORT MESSAGE 5.1.1	The UE shall have updated Last-Used-TP-MR
			of EF SMSS to "02"
16	LUCC ME	PROACTIVE UICC SESSION	
10	$UICC \to ME$	ENDED	
17	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
		MESSAGE 5.1.3	
18	ME → UICC	FETCH	 
19	$UICC \to ME$	PROACTIVE COMMAND: SEND	[UCS2 alphabet]
20	$ME \rightarrow USER$	SHORT MESSAGE 5.1.3	[Alpha Identifier]
	IVIL -> UOLK	Display "中一"	"Middle 1" in Chinese, 0x82 coding of UCS2
			format
21	$ME \to USS$	Send SMS-PP (SEND SHORT	
00		MESSAGE) Message 5.3	
22	USS → ME	SMS RP-ACK TERMINAL RESPONSE: SEND	[Command performed excessefully]
23	$ME \rightarrow UICC$	SHORT MESSAGE 5.1.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR
		ON THE SOAGE S.T.T	of EF SMSS to "03"
			3
24	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	

**ETSI** 

PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.1

Logically:

Command details

Command number:

Command type: SEND SHORT MESSAGE packing not required

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "中一"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

**SMS TPDU** 

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data
Message class class 0
TP-UDL 24
TP-UD "中一"

#### Coding:

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

#### SMS-PP (SEND SHORT MESSAGE) Message 5.1

#### Logically:

**SMS TPDU** 

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "01"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class 0
TP-UDL 24
TP-UD "中一"

#### Coding:

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

#### SMS-PP (SEND SHORT MESSAGE) Message 5.2

Logically:

**SMS TPDU** 

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "02"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

**TP-DCS** 

Message coding UCS2 (16-bit data)

Message class 0 TP-UDL 24 TP-UD "中一"

Coding:

BER-TLV:	01	02	09	91	10	32	54	76	F8	40	80	04
	4E	2D	4E	00								

#### SMS-PP (SEND SHORT MESSAGE) Message 5.3

Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "03"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

Message class 0 TP-UDL 24 TP-UD "中一"

Coding:

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

#### PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.2

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE packing not required

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "中一"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data
Message class class 0
TP-UDL 24
TP-UD "中一"

#### Coding:

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

#### PROACTIVE COMMAND: SEND SHORT MESSAGE: 5.1.3

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE packing not required

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "中一"

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "00"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 16-bit data
Message class class 0
TP-UDL 24
TP-UD "中一"

#### Coding:

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

#### TERMINAL RESPONSE: SEND SHORT MESSAGE 5.1.1

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
		MESSAGE 6.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.1	[packing not required, 16-bit data]
4	$ME \rightarrow USER$	Display "80ノレ0"	[Characters in katakana]
5	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 6.1	
6	$USS \to ME$	SMS RP-ACK	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "01"
8	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.2	
10	$ME \rightarrow UICC$	FETCH	
11	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.2	[packing not required, 16-bit data]
12	$ME \rightarrow USER$	Display "81ル1"	[Characters in katakana]
13	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 6.2	
14	$USS \to ME$	SMS RP-ACK	
15	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "02"
16	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
17	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 6.1.3	
18	$ME \rightarrow UICC$	FETCH	
19	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 6.1.3	[packing not required, 16-bit data]
20	$ME \rightarrow USER$	Display "82ル2"	[Characters in katakana]
21	$ME \rightarrow USS$	Send SMS-PP (SEND SHORT MESSAGE) Message 6.3	
22	$USS \to ME$	SMS RP-ACK	
23	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SHORT MESSAGE 6.1.1	[Command performed successfully] The UE shall have updated Last-Used-TP-MR of EF SMSS to "03"
24	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	5. 2. 5.000 to 50

#### PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.1

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE packing not required

Device identities

Source device: UICC Destination device: Network Alpha identifier: "80/V0"

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/ $\nu$ 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	80	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/\(\nu\)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 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
DLIX-ILV.	01	03	Οī	13	00	02	02	02	01	ಂ	Οī	00

#### PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.2

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE packing not required

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "81/\(\nu\)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/\(\nu\)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	80	00	38	00
	30	30	EB	00	32							

#### SMS-PP (SEND SHORT MESSAGE) Message 6.2

Logically:

**SMS TPDU** 

TP-MTI **SMS-SUBMIT** 

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "02"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

UCS2 (16-bit data) Message coding

class 0 Message class TP-UDL 10 TP-UD "80ル2"

#### Coding:

Coding	01	02	09	91	10	32	54	76	F8	40	08	80
	00	38	00	30	30	EB	00	32				

#### PROACTIVE COMMAND: SEND SHORT MESSAGE: 6.1.3

#### Logically:

Command details

Command number:

SEND SHORT MESSAGE Command type: packing not required

Command qualifier:

Device identities

Source device: **UICC** Destination device: Network "82ル2" Alpha identifier:

Address

TON: International number

"ISDN / telephone numbering plan" NPI:

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

**TP-SRR** A status report is not requested

"00" TP-MR

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 class 0 Message class TP-UDL 10 TP-UD "80ル3"

#### Coding:

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

#### SMS-PP (SEND SHORT MESSAGE) Message 6.3

#### Logically:

**SMS TPDU** 

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "03"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding UCS2 (16-bit data)

 $\begin{array}{ll} \text{Message class} & \text{class 0} \\ \text{TP-UDL} & 10 \\ \text{TP-UD} & "80 / \text{$\nu$3"} \end{array}$ 

#### Coding:

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

#### 27.22.4.10.6.5 Test requirement

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

#### 27.22.4.10.7 SEND SHORT MESSAGE (IMS)

#### 27.22.4.10.7.1 Definition and applicability

See clause 3.2.2.

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

#### 27.22.4.10.7.2 Conformance requirement

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

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.
- TS 31.103 [35].
- TS 34.229-1 [36], Annexes C.2, C.17 and C.18.
- TS 24.341 [37], clause 5.3.1.

#### 27.22.4.10.7.3 Test purpose

- 1) To verify that the ME correctly formats and sends a short message via IMS to the E-USS/USS as indicated in the SEND SHORT MESSAGE proactive UICC command, and returns a TERMINAL RESPONSE command to the UICC indicating the status of the transmission of the Short Message.
- 2) To verify that the ME uses the default service address as indicated in EF SMSP if no service center address is available in the Send Short Message command.
- 3) To verify that a device of Class ND does not reject the Send Short Message command if the proactive Send Short Message command contains an alpha identifier.

27.22.4.10.7.4 Method of test

27.22.4.10.7.4.1 Initial conditions

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

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

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

27.22.4.10.7.4.2 Procedure

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

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

- Used Network Simulator (NWS): E-USS
- SMS-over-IP is used to send and receive short messages
- ME supports eFDD or eTDD and SMS-over-IP

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

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

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

### IMS related procedure 1:

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

**Generic Test Procedure 1 (SEND SHORT MESSAGE)** 

Step	Direction	MESSAGE / Action	Comments
4	UICC → ME	PROACTIVE COMMAND	- Commonto
		PENDING: SEND SHORT	
_		MESSAGE 7.1.1	
5	ME → UICC	FETCH	for a bigger and the service of CNAO allofacets
6	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.1	[packing not required, SMS default alphabet]
7	$ME \rightarrow NWS$	Send RP-DATA containing SMS- PP (SEND SHORT MESSAGE)	See Note 1.
		Message 7.1	In case of SMS-over-IP the RP-
			Destination Address (SM Service Center Address within the RP-
			DATA) is taken from the ISIM (EF
			SMSP)
8	NWS → ME	RP-ACK TERMINAL RESPONSE: SEND	See Note 2.
9	$ME \to UICC$	SHORT MESSAGE 7.1.1	[Command performed successfully] The UE shall have updated Last-
			Used-TP-MR of EF SMSS to "01"
10	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
11	$ME \to UICC$	MESSAGE 7.1. 2 FETCH	
12	$UICC \rightarrow ME$	PROACTIVE COMMAND: SEND	[packing required, 8 bit data]
	3133 / WL	SHORT MESSAGE 7.1.2	
13	$ME \rightarrow USER$		[Alpha Identifier not to be displayed
		holds the RP_Destination_Address	by Terminals of Class_ND]
14	ME → NWS	Send RP-DATA containing SMS-	See Note 1.
		PP (SEND SHORT MESSAGE)	
		Message 7.2	
15	NWS → ME	RP-ACK	See Note 2.
16	$ME \to UICC$	TERMINAL RESPONSE: SEND SHORT MESSAGE 7.1.2	[Command performed successfully] The UE shall have updated Last-
		OHOR WESONGE 7.1.2	Used-TP-MR of EF SMSS to "02"
17	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT	
18	ME LUCC	MESSAGE 7.1.3 FETCH	
19	$\frac{ME \to UICC}{UICC \to ME}$	PROACTIVE COMMAND: SEND	[packing not required, SMS default
		SHORT MESSAGE 7.1.3	alphabet]
20	$ME \rightarrow USER$	Display "The address data object	[Alpha Identifier not to be displayed
04	NAT NAME	holds the RP Destination Address "	by Terminals of Class_ND]
21	$ME \rightarrow NWS$	Send RP-DATA containing SMS- PP (SEND SHORT MESSAGE)	See Note 1.
		Message 7.3	
22	$NWS \to ME$	RP-ACK	See Note 2.
23	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		SHORT MESSAGE 7.1.3	The UE shall have updated Last- Used-TP-MR of EF SMSS to "03"
24	$UICC \to ME$	PROACTIVE COMMAND	OSEU-IF-IVIN OI EF SIVISS (U US
		PENDING: SEND SHORT	
		MESSAGE 7.1.4	
25	ME → UICC	FETCH	
26	$UICC \to ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.4	[packing not required, 8-bit data]
27	ME	No information to user	[Alpha identifier length '00']
28	ME → NWS	Send RP-DATA containing SMS-	See Note 1.
		PP (SEND SHORT MESSAGE)	
29	NIMO MAT	Message 7.4 RP-ACK	See Note 2.
30	$\begin{array}{c} NWS \to ME \\ ME \to UICC \end{array}$	TERMINAL RESPONSE: SEND	[Command performed successfully]
30	IVIL -> UICC	SHORT MESSAGE 7.1.4	The UE shall have updated Last-
			Used-TP-MR of EF SMSS to "04"
31	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SHORT MESSAGE 7.1.5	
		INICOUNGE 1.1.0	

32	$ME \rightarrow UICC$	FETCH	
33	$UICC \to ME$	PROACTIVE COMMAND: SEND	[packing not required, 8-bit data]
		SHORT MESSAGE 7.1.5	
34	$ME \rightarrow USER$	May give information to user	[No Alpha Identifier]
		concerning what is happening	
35	$ME \rightarrow NWS$	Send RP-DATA containing SMS-	See Note 1.
		PP (SEND SHORT MESSAGE)	
		Message 7.5	
36	$NWS \to ME$	RP-ACK	See Note 2.
37	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		SHORT MESSAGE 7.1.5	The UE shall have updated Last-
			Used-TP-MR of EF SMSS to "05"
38	$USER \to ME$	The ME is switched off	
N.L. 4			

Note 1:

In case of IMS the RP-DATA is contained in the SIP MESSAGE which is built according to TS 24.341 [37], clause 5.3.1.2 including PSI of the SMSC from EF PSISMSC.

Note 2

In case of IMS the RP-ACK message is contained in the message body of the SIP MESSAGE.

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.1

Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE 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 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 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 0 TP-UDL 13

TP-UD "Short Message"

#### Coding:

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

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

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

#### Coding:

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

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.2

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing required

Device identities

Source device: UICC
Destination device: Network

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

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI 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 coding8 bit dataMessage classclass 0TP-UDL160

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:

1												
BER-TLV:	D0	81	FD	81	03	01	13	01	82	02	81	83
	85	38	54	68	65	20	61	64	64	72	65	73
	73	20	64	61	74	61	20	6F	62	6A	65	63
	74	20	68	6F	6C	64	73	20	74	68	65	20
	52	50	11	44	65	73	74	69	6E	61	74	69
	6F	6E	11	41	64	64	72	65	73	73	86	09
	91	11	22	33	44	55	66	77	F8	8B	81	AC
	01	00	09	91	10	32	54	76	F8	40	F4	A0
	54	77	6F	20	74	79	70	65	73	20	61	72
	65	20	64	65	66	69	6E	65	64	3A	20	2D
	20	41	20	73	68	6F	72	74	20	6D	65	73
	73	61	67	65	20	74	6F	20	62	65	20	73
	65	6E	74	20	74	6F	20	74	68	65	20	6E
	65	74	77	6F	72	6B	20	69	6E	20	61	6E
	20	53	4D	53	2D	53	55	42	4D	49	54	20
	6D	65	73	73	61	67	65	2C	20	6F	72	20
	61	6E	20	53	4D	53	2D	43	4F	4D	4D	41
	4E	44	20	6D	65	73	73	61	67	65	2C	20
	77	68	65	72	65	20	74	68	65	20	75	73
	65	72	20	64	61	74	61	20	63	61	6E	20
	62	65	20	70	61	73	73	65	64	20	74	72
	61	6E	73	70								

#### SMS-PP (SEND SHORT MESSAGE) Message 7.2

#### Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "02"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class 0 TP-UDL 160 TP-UD "Two types are defined: - A short message to be sent to the network in an

SMS-SUBMIT message, or an SMS-COMMAND message, where the user data can

be passed transp"

Coding:

Coding		01	02	09	91	10	32	54	76	F8	40	F0
	A0	D4	FB	1B	44	CF	C3	СВ	73	50	58	5E
	06	91	CB	E6	B4	BB	4C	D6	81	5A	A0	20
	68	8E	7E	СВ	E9	A0	76	79	3E	0F	9F	CB
	20	FA	1B	24	2E	83	E6	65	37	1D	44	7F
	83	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28
	ED	06	85	DD	A0	69	73	DA	9A	56	85	CD
	24	15	D4	2E	CF	E7	E1	73	99	05	7A	CB
	41	61	37	68	DA	9C	B6	86	CF	66	33	E8
	24	82	DA	E5	F9	3C	7C	2E	В3	40	77	74
	59	5E	06	D1	D1	65	50	7D	5E	96	83	C8
	61	7A	18	34	0E	BB	41	E2	32	80	1E	9E
	CF	СВ	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 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 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:

D0	81	E9	7	)	,						
	• •	L9	81	03	01	13	00	82	02	81	83
85	38	54	68	65	20	61	64	64	72	65	73
73	20	64	61	74	61	20	6F	62	6A	65	63
74	20	68	6F	6C	64	73	20	74	68	65	20
52	50	20	44	65	73	74	69	6E	61	74	69
6F	6E	20	41	64	64	72	65	73	73	86	09
91	11	22	33	44	55	66	77	F8	8B	81	98
01	00	09	91	10	32	54	76	F8	40	F0	A0
D4	FB	1B	44	CF	C3	CB	73	50	58	5E	06
91	CB	E6	B4	BB	4C	D6	81	5A	A0	20	68
8E	7E	CB	E9	A0	76	79	3E	0F	9F	CB	20
FA	1B	24	2E	83	E6	65	37	1D	44	7F	83
E8	E8	32	C8	5D	A6	DF	DF	F2	35	28	ED
06	85	DD	Α0	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
СВ	64	10	5D	1E	76	CF	E1				
	73 74 52 56 57 50 50 50 50 50 50 50 50 50 50	73 20 74 20 552 50 6F 6E 91 11 01 00 04 FB 91 CB 8E 7E FA 1B E8 E8 96 85 15 D4 61 37 32 DA 56 06 7A 18	73 20 64 74 20 68 74 20 68 75 20 76 6E 20 77 20 78 78 78 78 78 78 78 78 78 78 78 78 78 7	73	73         20         64         61         74           74         20         68         6F         6C           52         50         20         44         65           6F         6E         20         41         64           91         11         22         33         44           91         00         09         91         10           94         FB         1B         44         CF           91         CB         E6         B4         BB           8E         7E         CB         E9         A0           FA         1B         24         2E         83           E8         E8         32         C8         5D           96         85         DD         A0         69           15         D4         2E         CF         E7           61         37         68         DA         9C           32         DA         E5         F9         3C           5E         06         D1         D1         65           7A         18         34         0E         BB	73         20         64         61         74         61           74         20         68         6F         6C         64           62         50         20         44         65         73           6F         6E         20         41         64         64           61         11         22         33         44         55           61         00         09         91         10         32           64         FB         1B         44         CF         C3           61         CB         E6         B4         BB         4C           62         TE         CB         E9         A0         76           63         E8         E8         32         C8         5D         A6           68         E8         B5         DD         A0         69         73           15         D4         2E         CF         E7         E1           61         37         68         DA         9C         B6           32         DA         E5         F9         3C         7C           5E         06         <	73         20         64         61         74         61         20           74         20         68         6F         6C         64         73           52         50         20         44         65         73         74           6F         6E         20         41         64         64         72           61         11         22         33         44         55         66           61         00         09         91         10         32         54           61         CB         EB         1B         44         CF         C3         CB           61         CB         E6         B4         BB         4C         D6           61         CB         E6         B4         BB         4C         D6           62         7E         CB         E9         A0         76         79           63         E7         CB         E9         A0         76         79           64         B5         DD         A0         69         73         DA           65         B5         DD         A0         69	73         20         64         61         74         61         20         6F           74         20         68         6F         6C         64         73         20           62         50         20         44         65         73         74         69           6F         6E         20         41         64         64         72         65           61         11         22         33         44         55         66         77           61         00         09         91         10         32         54         76           61         00         09         91         10         32         54         76           61         01         00         09         91         10         32         54         76           61         02         09         91         10         32         54         76           61         03         09         91         10         32         54         76           61         04         E6         B4         BB         4C         D6         81           62         7E	73         20         64         61         74         61         20         6F         62           74         20         68         6F         6C         64         73         20         74           52         50         20         44         65         73         74         69         6E           6F         6E         20         41         64         64         72         65         73           61         11         22         33         44         55         66         77         F8           61         00         09         91         10         32         54         76         F8           61         00         09         91         10         32         54         76         F8           61         00         09         91         10         32         54         76         F8           61         00         09         91         10         32         54         76         F8           61         CB         E6         B4         BB         4C         D6         81         5A           61         CB	73         20         64         61         74         61         20         6F         62         6A           74         20         68         6F         6C         64         73         20         74         68           52         50         20         44         65         73         74         69         6E         61           6F         6E         20         41         64         64         72         65         73         73           61         11         22         33         44         55         66         77         F8         8B           61         00         09         91         10         32         54         76         F8         40           64         FB         1B         44         CF         C3         CB         73         50         58           61         CB         E6         B4         BB         4C         D6         81         5A         A0           62         7E         CB         E9         A0         76         79         3E         OF         9F           6A         1B         24	73         20         64         61         74         61         20         6F         62         6A         65           74         20         68         6F         6C         64         73         20         74         68         65           52         50         20         44         65         73         74         69         6E         61         74           6F         6E         20         41         64         64         72         65         73         73         86           61         11         22         33         44         55         66         77         F8         8B         81           61         00         09         91         10         32         54         76         F8         40         F0           64         FB         1B         44         CF         C3         CB         73         50         58         5E           61         CB         E6         B4         BB         4C         D6         81         5A         A0         20           68         7E         CB         E9         A0         76

#### SMS-PP (SEND SHORT MESSAGE) Message 7.3

#### Logically:

SMS TPDU

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "03"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding SMS default alphabet

Message class 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	01	03	09	91	10	32	54	76	F8	40	F0	A0
	D4	FB	1B	44	CF	C3	СВ	73	50	58	5E	06
	91	СВ	E6	B4	BB	4C	D6	81	5A	A0	20	68
	8E	7E	СВ	E9	A0	76	79	3E	0F	9F	CB	20
	FA	1B	24	2E	83	E6	65	37	1D	44	7F	83
	E8	E8	32	C8	5D	A6	DF	DF	F2	35	28	ED
	06	85	DD	A0	69	73	DA	9A	56	85	CD	24
	15	D4	2E	CF	E7	E1	73	99	05	7A	CB	41
	61	37	68	DA	9C	В6	86	CF	66	33	E8	24
	82	DA	E5	F9	3C	7C	2E	В3	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 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 TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "04"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 8-bit data Message class class 0 TP-UDL 12

TP-UD "Test Message"

#### Coding:

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

#### PROACTIVE COMMAND: SEND SHORT MESSAGE 7.1.5

#### Logically:

Command details

Command number: 1

Command type: SEND SHORT MESSAGE

Command qualifier: packing not required

Device identities

Source device: UICC
Destination device: Network

Address

TON: International number

NPI: "ISDN / telephone numbering plan"

Dialling number string "112233445566778"

**SMS TPDU** 

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI 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 coding8-bit dataMessage classclass 0TP-UDL12

TP-UD "Test Message"

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

#### SMS-PP (SEND SHORT MESSAGE) Message 7.5

#### Logically:

**SMS TPDU** 

TP-MTI SMS-SUBMIT

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

TP-VPF TP-VP field not present

TP-RP TP-Reply-Path is not set in this SMS-SUBMIT TP-UDHI The TP-UD field contains only the short message

TP-SRR A status report is not requested

TP-MR "05"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

TP-PID Short message type 0

TP-DCS

Message coding 8-bit data
Message class class 0
TP-UDL 12

TP-UD "Test Message"

#### Coding:

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

#### 27.22.4.10.7.5 Test requirement

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

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

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

27.22.4.10.8.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.10.8.2 Conformance requirement

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

- TS 31.111 [15] clause 6.1, clause 6.4.10, clause 6.6.9, clause 8.1, clause 8.2, clause 8.6, clause 8.7, clause 8.13, clause 8.31 and clause 5.2.
- TS 24.301 [32] clause 5.6.3.1, 5.6.3.3 and 9.9.3.22

#### 27.22.4.10.8.3 Test purpose

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

27.22.4.10.8.4 Method of test

27.22.4.10.8.4.1 Initial conditions

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

27.22.4.10.8.4.2 Procedure

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

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

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

#### SMS over SGs related procedure:

Step	Direction	MESSAGE / Action	Comments
1	$USER \to ME$	The ME is switched on	ME will perform Profile Download and USIM
			initialisation
2	$ME \rightarrow NWS$	ME performs regular network	UE is afterwards in state Registered, Idle
		registration.	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 1.1.1	
4	$ME \rightarrow USER$	Display "Call Forward"	
5	$ME \to USS$	REGISTER 1.1A	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 1.1A	
7	$ME \to UICC$	TERMINAL RESPONSE: SEND	
		SS 1.1.1A	

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

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

# PROACTIVE COMMAND: SEND SS 1.1.1

#### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Call Forward"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

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

Forwarding Info

SS-Code

- Call Forwarding Unconditional

Forward Feature List

ForwardingFeature

TeleserviceCode

- All Tele Services

SS-Status

- state ind .: operative

provision ind.: provisionedregistration ind.: registered

- activation ind.: active

long Forward ed To Number

- 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	80	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	80	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 1.1.1	
4	$ME \rightarrow USER$	Display "Call Forward"	
5	$ME \rightarrow USS$	REGISTER 1.1A	
		Or	
		REGISTER 1.1B	
6		,	[Return Error]
7	$ME \rightarrow UICC$	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

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 1.1.1	
4	$ME \rightarrow USER$	Display "Call Forward"	
5	$ME \rightarrow USS$	REGISTER 1.1A	
		Or	
		REGISTER 1.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS REJECT) 1.1.	[Reject]
7	$ME \rightarrow UICC$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 1.4.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 1.4.1	
4	$ME \rightarrow USER$	Display "Call Forward"	
5	$ME \to USS$	REGISTER 1.2A	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 1.2A	[Successful]
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SS 1.4.1A	

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

l	Step	Direction	MESSAGE / Action	Comments
Ī	1	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 1.4.1	
	2	$ME \to UICC$	FETCH	
	3	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 1.4.1	
	4	$ME \to USER$	Display "Call Forward"	
	5	$ME \to USS$	REGISTER 1.2B	
	6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 1.2B	[Successful]
	7	$ME \rightarrow UICC$	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

 $long FTN\hbox{-} Supported$ 

# Coding:

BER-TLV	30	19	04	01	21	83	01	Note 1	84	0F	91	10
\ <u>-</u>	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.: operativeprovision ind.: provisionedregistration ind.: registeredactive

#### Coding:

Coding	0A	A0	0D	04	01	21	30	80	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

BER-TLV:	81	03	01	11	00	82	02	82	81	03	11
	00	0A	A0	0D	04	01	21	30	80	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 1.5.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 1.5.1	
4	$ME \rightarrow USER$	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	$ME \to USS$	REGISTER 1.3	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 1.3	[Successful]
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SS 1.5.1	

### PROACTIVE COMMAND: SEND SS 1.5.1

### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC Destination device: Network

Alpha identifier: "Even if the Fixed Dialling Number service is enabled, the supplementary service

control string included in the SEND SS proactive command shall not be checked against those of the FDN list. Upon receiving this command, the ME shall deci"

SS String

TON: Undefined NPI: Undefined SS string: "\*#31#"

# Coding:

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

#### **REGISTER 1.3**

Logically (only SS argument):

#### INTERROGATE SS ARGUMENT

SS-Code

- Calling Line Id Restriction

Coding:

BER-TLV 30 03 04 01 12

### RELEASE COMPLETE (SS RETURN RESULT) 1.3

Logically (only from operation code):

### INTERROGATE SS RESULT

CliRestrictionInfo

SS-Status

- state ind .: operative

- provision ind.: provisioned

- registration ind.: registered

- activation ind.: not active

CliRestrictionOption

- Temporary Def Allowed

Coding:

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

TERMINAL RESPONSE: SEND SS 1.5.1

Logically:

Command details

Command number:

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

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

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

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

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

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

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

#### PROACTIVE COMMAND: SEND SS 2.1.1

Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC

Destination device: Network Alpha identifier: "Basic Icon"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Icon Identifier:

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

#### Coding:

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

TERMINAL RESPONSE: SEND SS 2.1.1AA

Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully Additional information: Operation Code and SS Parameters

#### Coding:

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

TERMINAL RESPONSE: SEND SS 2.1.1AB

Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully Additional information: Operation Code and SS Parameters

BER-TLV:	81	03	01	11	00	82	02	82	81	03	11
	00	0A	A0	0D	04	01	21	30	80	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 2.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[BASIC-ICON, self-explanatory]
		SS 2.1.1	
4	$ME \rightarrow USER$	Display "Basic Icon" without the	
		icon	
5	$ME \to USS$	REGISTER 1.1A	Option A applies if A.1/63 is supported,
		Or	Option B applies if A.1/63 is not supported
_		REGISTER 1.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 1.1A or	Option A applies if A.1/63 is supported,
		RELEASE COMPLETE (SS	Option B applies if A.1/63 is not supported
_		RETURN RESULT) 1.1B	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully, but
		SS 2.1.1BA or	requested icon could not be displayed]
		TERMINAL RESPONSE: SEND	Option BA applies if A.1/63 is supported,
		SS 2.1.1BB	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

BER-TLV:

81	03	01	11	00	82	02	82	81	03	11
04	0A	A0	0D	04	01	21	30	80	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 2.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[COLOUR-ICON, self-explanatory]
		SS 2.2.1	
4	$ME \rightarrow USER$	Display the colour icon without	
		thealpha identifier	
5	$ME \rightarrow USS$	REGISTER 1.1A	Option A applies if A.1/63 is supported,
		Or	Option B applies if A.1/63 is not supported
		REGISTER 1.1B	10 (1)
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 1.1A or	Option A applies if A.1/63 is supported,
		RELEASE COMPLETE (SS	Option B applies if A.1/63 is not supported
		RETURN RESULT) 1.1B	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		SS 2.1.1AA or	Option AA applies if A.1/63 is supported,
		TERMINAL RESPONSE: SEND	Option AB applies if A.1/63 is not supported
		SS 2.1.1AB	

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:

 $\begin{array}{ll} \mbox{Icon qualifier:} & \mbox{icon is self-explanatory} \\ \mbox{Icon Identifier:} & \mbox{record 2 in } EF_{(IMG)} \\ \end{array}$ 

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	Α9	01	FB	9F	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 2.2.1	
2	/ 0.00		
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[COLOUR-ICON, self-explanatory]
		SS 2.2.1	
4	$ME \rightarrow USER$	Display "Colour Icon" without the	
		icon	
5	$ME \rightarrow USS$	REGISTER 1.1A	Option A applies if A.1/63 is supported,
		Or	Option B applies if A.1/63 is not supported
		REGISTER 1.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 1.1A or	Option A applies if A.1/63 is supported,
		RELEASE COMPLETE (SS	Option B applies if A.1/63 is not supported
_		RETURN RESULT) 1.1B	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed but requested icon
		SS 2.1.1BA or	could not be displayed]
		TERMINAL RESPONSE: SEND	Option BA applies if A.1/63 is supported,
		SS 2.1.1BB	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 2.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[BASIC-ICON, non self-explanatory]
		SS 2.3.1	
4	$ME \rightarrow USER$	Display "Basic Icon" and the basic	
		icon	
5	$ME \rightarrow USS$	REGISTER 1.1A	Option A applies if A.1/63 is supported,
		Or	Option B applies if A.1/63 is not supported
		REGISTER 1.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 1.1A or	Option A applies if A.1/63 is supported,
		RELEASE COMPLETE (SS	Option B applies if A.1/63 is not supported
		RETURN RESULT) 1.1B	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		SS 2.1.1AA or	Option AA applies if A.1/63 is supported,
		TERMINAL RESPONSE: SEND	Option AB applies if A.1/63 is not supported
		SS 2.1.1AB	

#### PROACTIVE COMMAND: SEND SS 2.3.1

# Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha Identifier

Text: "Basic Icon"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Icon Identifier

Icon qualifier: icon is non self-explanatory

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

Coding:

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

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 2.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[BASIC-ICON, non self-explanatory]
		SS 2.3.1	
4	$ME \rightarrow USER$	Display "Basic Icon" without the	
		icon	
5	$ME \rightarrow USS$	REGISTER 1.1A	Option A applies if A.1/63 is supported,
		Or	Option B applies if A.1/63 is not supported
		REGISTER 1.1B	10 (1)
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 1.1A or	Option A applies if A.1/63 is supported,
		RELEASE COMPLETE (SS	Option B applies if A.1/63 is not supported
7	ME	RETURN RESULT) 1.1B TERMINAL RESPONSE: SEND	[Command parformed but requested icon
/	ME → UICC	ISS 2.1.1BA or	[Command performed but requested icon could not be displayed]
		TERMINAL RESPONSE: SEND	Option BA applies if A.1/63 is supported,
		ISS 2.1.1BB	Option BB applies if A.1/63 is supported,
		00 Z. I. IDD	Option DD applies if A. 1/03 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	$UICC \to$	PROACTIVE COMMAND PENDING:	
	ME	SEND SS 2.4.1	
2	ME  o	FETCH	
	UICC		
3	$UICC \to$	PROACTIVE COMMAND: SEND SS 2.4.1	[BASIC-ICON, non self-explanatory]
	ME		
4	ME  o	TERMINAL RESPONSE: SEND SS 2.4.1	[Command data not understood by ME]
	UICC		

PROACTIVE COMMAND: SEND SS 2.4.1

Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789#"

Icon Identifier

Icon qualifier: icon is non self-explanatory

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

Coding:

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

TERMINAL RESPONSE: SEND SS 2.4.1

Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command data not understood by ME

Coding:

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

#### 27.22.4.11.2.5 Test requirement

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

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

27.22.4.11.3.1 Definition and applicability

See clause 3.2.2.

### 27.22.4.11.3.2 Conformance requirement

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

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

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

### 27.22.4.11.3.3 Test purpose

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

#### 27.22.4.11.3.4 Method of test

#### 27.22.4.11.3.4.1 Initial conditions

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

#### 27.22.4.11.3.4.2 Procedure

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

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

#### PROACTIVE COMMAND: SEND SS 3.1.1

# Logically:

Command details

Command number: 1

SEND SS

Command type:
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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$		
		SS 4.1.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with left alignment]
5	$ME \rightarrow USS$	REGISTER 4.1A	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1A	
7	$ME \rightarrow UICC$		
		SS 4.1.1A	
8	$UICC \to ME$	PROACTIVE COMMAND	
9	ME LUCC	PENDING: SEND SS 4.1.2 FETCH	
_	11.12 / 0.00	. = . •	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND ISS 4.1.2	
11	ME → USER		[Message shall be formatted with left
''	IVIE → USER	Display Text Attribute 2	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	$ME \rightarrow USS$	REGISTER 4.1A	
13	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1A	,
14	$ME \rightarrow UICC$	TERMINAL RESPÓNSE: SEND	
		SS 4.1.1A	

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
_		PENDING: SEND SS 4.1.1	
2	WIL 7 0100	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 4.1.1	
4	$ME \to USER$	Display "Text Attribute 1"	[Message shall be formatted with left alignment]
5	$ME \to USS$	REGISTER 4.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 4.1.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 4.1.2	
11	$ME \to USER$	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	$ME \to USS$	REGISTER 4.1B	
13	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.1.1

### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

#### Coding:

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

#### PROACTIVE COMMAND: SEND SS 4.1.2

#### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

#### Coding:

BER-TLV:	D0	2D	81	03	01	11	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	89	10	91	AA	12	0A	21
	43	65	87	09	21	43	65	87	Α9	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.2.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with center alignment]
5	$ME \rightarrow USS$	REGISTER 4.1A	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1A	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1A	
8	$UICC \to ME$	PROACTIVE COMMAND	
9	ME	PENDING: SEND SS 4.2.2 FETCH	
_	IIIL / 0.00	. = . •	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	
11	ME LIGED	SS 4.2.2	[Manage shall be formatted with center
11	$ME \rightarrow USER$	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	7.12, 12, 110 diligilitioni oridingo wili take piacej
13	USS → ME	RELEASE COMPLETE (SS	[Successful]
	000 / WIE	RETURN RESULT) 4.1A	[
14	ME → UICC	TERMINAL RESPONSE: SEND	
	, 5.56	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 4.2.1	
4	$ME \to USER$	Display "Text Attribute 1"	[Message shall be formatted with center alignment]
5	$ME \to USS$	REGISTER 4.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 4.2.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 4.2.2	
11	$ME \to USER$	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	$ME \to USS$	REGISTER 4.1B	
13	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.2.1

### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Off

Colour: Dark Green Foreground, Bright Yellow Background

### Coding:

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

#### PROACTIVE COMMAND: SEND SS 4.2.2

#### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

#### Coding:

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

#### 27.22.4.11.4.2.5 Test requirement

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

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

27.22.4.11.4.3.1 Definition and applicability

See clause 3.2.2.

### 27.22.4.11.4.3.2 Conformance requirement

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

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

#### 27.22.4.11.4.3.3 Test purpose

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

#### 27.22.4.11.4.3.4 Method of test

#### 27.22.4.11.4.3.4.1 Initial conditions

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

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

#### 27.22.4.11.4.3.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 4.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	WIL / 0100	<del>-                                   </del>	
		SS 4.3.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with right alignment]
5	$ME \to USS$	REGISTER 4.1A	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
_		RETURN RESULT) 4.1A	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND ISS 4.1.1A	
8	$UICC \to ME$	PROACTIVE COMMAND	
	0.00 / III.E	PENDING: SEND SS 4.3.2	
9	$ME \rightarrow UICC$		
10	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 4.3.2	
11	$ME \rightarrow USER$	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
12	$ME \to USS$	REGISTER 4.1A	A.2/12, no alignment change will take place]
13	USS → ME	RELEASE COMPLETE (SS	[Successful]
13		RETURN RESULT) 4.1A	[Oddocessidi]
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1A	

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.3.1	
4	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with right alignment]
5	$ME \rightarrow USS$	REGISTER 4.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
7	ME → UICC	TERMINAL RESPONSE: SEND	
	WE 70100	SS 4.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.3.2	
9	$ME \rightarrow UICC$		
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.3.2	
11	$ME \rightarrow USER$	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  o USS	REGISTER 4.1B	
13	USS → ME	RELEASE COMPLETE (SS	[Successful]
'0		RETURN RESULT) 4.1B	[Cuccocciai]
14	ME → UICC	TERMINAL RESPONSE: SEND	
		SS 4.1.1B	

#### PROACTIVE COMMAND: SEND SS 4.3.1

#### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Off

Colour: Dark Green Foreground, Bright Yellow Background

#### Coding:

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

PROACTIVE COMMAND: SEND SS 4.3.2

#### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

#### Coding:

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

#### 27.22.4.11.4.3.5 Test requirement

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

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

27.22.4.11.4.4.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.11.4.4.2 Conformance requirement

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

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

#### 27.22.4.11.4.4.3 Test purpose

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

#### 27.22.4.11.4.4.4 Method of test

#### 27.22.4.11.4.4.4.1 Initial conditions

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

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

### 27.22.4.11.4.4.4.2 Procedure

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

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

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.4.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 4.4.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with large font size]
5	$ME \rightarrow USS$	REGISTER 4.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
_	.45	RETURN RESULT) 4.1B	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SS 4.1.1B	
8	UICC → ME	PROACTIVE COMMAND	
	OIGG / WIL	PENDING: SEND SS 4.4.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.4.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with normal font
12	ME LICC	REGISTER 4.1B	size]
13	ME → USS	RELEASE COMPLETE (SS	[Successful]
13	$USS \to ME$	RETURN RESULT) 4.1B	[Successiui]
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
	, 5.55	SS 4.1.1B	
15	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.4.1	
16	ME → UICC	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 4.4.1	
18	$ME \rightarrow USER$	Display "Text Attribute 1"	Message shall be formatted with large font
10	IVIE → USEK	Display Text Attribute 1	size
19	$ME \rightarrow USS$	REGISTER 4.1B	0.201
20	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1B	
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
00		SS 4.1.1B	
22	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 4.4.3	
23	ME → UICC	FETCH	
24	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		ISS 4.4.3	
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Message shall be formatted with normal font
1			size]
26	$ME \rightarrow USS$	REGISTER 4.1B	
27	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
20	ME . LUCC	RETURN RESULT) 4.1B	
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SS 4.1.1B	
		טו.ו.ד טטן	

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

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

1 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1 2 ME → UICC UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1 4 ME → USS REGISTER 4.1B 5 ME → USS REGISTER 4.1B 6 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B 7 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.1.1B 8 UICC → ME PROACTIVE COMMAND: SEND SS 4.5.2 9 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.2 11 ME → USS USS → ME RELEASE COMPLETE (SS RESUR) SS 4.5.2 12 ME → USS USS → ME RELEASE COMPLETE (SS RESUR) SS 4.5.2 13 USS → ME RELEASE COMPLETE (SS RESUR) SS 4.1.1B 14 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.1.1B 15 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1 16 ME → UICC TERMINAL RESPONSE: SEND SS 4.5.1 17 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1 18 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1 19 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1 10 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.1.1B 11 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1 12 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.1.1B 13 UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1 14 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1 15 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1 16 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 17 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 18 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 19 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 10 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 11 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 12 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 13 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 15 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 16 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 17 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 18 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 19 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 10 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 11 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 12 ME → UICC →	Step	Direction	MESSAGE / Action	Comments
2 ME → UICC   FETCH   PROACTIVE COMMAND: SEND   S4.5.1   ME → USS   ME → UICC → ME   REGISTER 4.1B   ME → UICC → ME   PROACTIVE COMMAND: SEND   S5.4.5.1   ME → UICC → ME   PROACTIVE COMMAND: SEND   S5.4.5.1   ME → UICC → ME   PROACTIVE COMMAND   PENDING: SEND   S5.4.1.1B   PROACTIVE COMMAND   PENDING: SEND   S5.4.1.3   PROACTIVE COMMAND   PENDING: SEND   S6.4.1.3   PROACTIVE COMMAND   PENDING: SEND   S6.4.1.3   PROACTIVE COMMAND   PENDING: SEND   PROACTIVE COMMAND   PENDING: SEND   S6.4.1.3   PROACTIVE COMMAND   PENDING: SEND   PROACTIVE COMMAND   PENDING: SEND   PROACTIVE COMMAND   PROACTIVE COMMA	1	$UICC \to ME$		
UICC → ME				
SS 4.5.1  ME → USS  ME → USS  ME → USS  ME → UICC  ME → USS  ME → UICC  ME → UICC  ME → USS  ME → UICC  ME → USS  ME → UICS  ME → USS  ME → USS  ME → UICS  ME → UICS  ME → USS  ME → UICS				
Size]  ME → USS 6 USS → ME 1 USS → ME 1 SEGISTER 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B TERMINAL RESPONSE: SEND SS 4.1.1B PROACTIVE COMMAND PENDING: SEND SS 4.5.2 FETCH PROACTIVE COMMAND: SEND SS 4.5.2 Display "Text Attribute 2"  ME → USS 13 USS → ME 14 ME → UICC 15 UICC → ME 16 ME → UICC 16 ME → UICC 17 UICC → ME 18 ME → USS 18 USS → ME 19 ME → USS 19 ME → UICC 10 ME → UICC 11 ME → UICC 12 ME → UICC 13 UICC → ME 14 ME → UICC 15 ME → UICC 16 ME → UICC 17 UICC → ME 18 ME → USS 18 REGISTER 4.1B	3	$\bigcup UICC \to ME$	SS 4.5.1	
RELEASE COMPLETE (SS RETURN RESULT) 4.1B	4	$ME \rightarrow USER$	Display "Text Attribute 1"	1-
TERMINAL RESPONSE: SEND SS 4.1.1B  RETURN RESULT) 4.1B  TERMINAL RESPONSE: SEND SS 4.5.2  TERMINAL RESPONSE: SEND SS 4.5.2  ME → UICC → ME  REDUCC → ME  PROACTIVE COMMAND PENDING: SEND SS 4.5.2  THE → USS REGISTER 4.1B  RELEASE COMPLETE (SS RETURN RESULT) 4.1B  TERMINAL RESPONSE: SEND SS 4.1.1B  ME → UICC → ME  REJURN RESULT) 4.1B  TERMINAL RESPONSE: SEND SS 4.5.1  [Message shall be formatted with normal font size]  [Message shall be formatted with small font size]  [Message shall be formatted with size]  [Message shall be formatted with size]  [Message shall be formatted with normal font size]  [Message shall be formatted with normal font size]  [Message shall be formatted with normal font size]  [Message shall be formatted with normal font size]  [Message shall be formatted with normal font size]  [Message shall be formatted with normal font size]  [Message shall be formatted with normal font size]	5	$ME \rightarrow USS$	REGISTER 4.1B	
TERMINAL RESPÓNSE: SEND SS 4.1.18  BUICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.2  ME → UICC UICC → ME PROACTIVE COMMAND: SEND SS 4.5.2  11 ME → USER PROACTIVE COMMAND: SEND SS 4.5.2  12 ME → USS REGISTER 4.1B  13 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  14 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.1.1B  15 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1  16 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1  18 ME → USS REGISTER 4.1B  19 ME → USS REGISTER 4.1B  20 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  21 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1  22 UICC → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  23 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  ETERMINAL RESPONSE: SEND SS 4.5.3  FETCH PROACTIVE COMMAND PENDING: SEND SS 4.5.3  [ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  ETERMINAL RESPONSE: SEND SS 4.5.3  FETCH UICC → ME PROACTIVE COMMAND: SEND SS 4.5.3  ETERMINAL RESPONSE: SEND SS 4.5.3  FETCH UICC → ME PROACTIVE COMMAND: SEND SS 4.5.3  ETERMINAL RESPONSE: SEND SS 4.5.3	6	$USS \to ME$		[Successful]
SS 4.1.1B PROACTIVE COMMAND PENDING: SEND SS 4.5.2  ME → UICC ME PROACTIVE COMMAND: SEND SS 4.5.2  ME → USER  ME → USS REGISTER 4.1B UICC → ME PROACTIVE COMMAND: SEND SS 4.5.2  ME → USS REGISTER 4.1B  ME → UICC ME ME → UICC ME PROACTIVE COMMAND SS 4.5.1  ME → UICC ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1  ME → UICC ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1  ME → UICC ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1  ME → UICC ME PROACTIVE COMMAND: SEND SS 4.5.1  ME → USS REGISTER 4.1B  ME → USS REGISTER 4.1B  ME → USS NE USS → ME REGISTER 4.1B  ZUICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  RETURN RESULT) 4.1B  TERMINAL RESPONSE: SEND SS 4.5.3  ME → UICC ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  FETCH PROACTIVE COMMAND PENDING: SEND SS 4.5.3  ME → UICC ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  ME → UICC ME PROACTIVE COMMAND SS 4.5.3  ME → UICC ME PROACTIVE COMMAND SS 4.5.3  ME → UICC ME PROACTIVE COMMAND SS 4.5.3  [Message shall be formatted with normal font size]	_			
8 UICC → ME → UICC 9 ME → UICC 10 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.2 11 ME → USER PROACTIVE COMMAND: SEND SS 4.5.2 11 ME → USS REGISTER 4.1B 12 ME → USS RELEASE COMPLETE (SS RETURN RESULT) 4.1B 14 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.1.1B 15 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1 16 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1 17 UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1 18 ME → USS REGISTER 4.1B 19 ME → USS REGISTER 4.1B 20 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B 21 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.1.1B 22 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.1.1B 23 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.1.1B 24 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 25 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.3 26 ME → USS Display "Text Attribute 3" [Message shall be formatted with normal font size] 26 ME → USS REGISTER 4.1B 27 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B 28 ME → UICC TERMINAL RESPONSE: SEND 29 ME → USS REGISTER 4.1B 20 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B 21 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.3 25 ME → USS REGISTER 4.1B 26 ME → USS REGISTER 4.1B 27 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B 28 ME → UICC TERMINAL RESPONSE: SEND	/	$ME \rightarrow UICC$		
PENDING: SEND SS 4.5.2 FETCH PROACTIVE COMMAND: SEND SS 4.5.2 Display "Text Attribute 2"  ME → USER  ME → USS REGISTER 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B ME → UICC ME ME → USER  ME → UICC ME ME → UICC ME ME → UICC ME ME → UICC ME ME → UICC ME ME → UICC ME ME → UICC ME ME → UICC ME ME → UICC ME ME → USER ME → USER ME → USER ME → USER ME → USER ME → USER ME → UICC ME ME → UICC ME ME → UICC ME ME → UICC ME ME → USER ME → UICC ME ME ME → UICC ME ME ME ME ME ME ME ME ME ME ME ME ME	0	LUCC ME		
9 ME → UICC 10 UICC → ME 11 ME → USER 11 ME → USER 12 ME → USE 13 USS → ME 14 ME → UICC 15 ME → UICC 16 ME → UICC 17 UICC → ME 18 ME → UICC 18 ME → UICC 19 ME → USER 19 ME → UICC 17 UICC → ME 18 ME → USER 19 ME → USER 19 ME → USER 10 ME → USER 10 ME → UICC 17 UICC → ME 18 ME → USER 19 ME → USER 19 ME → USER 20 USS → ME 21 ME → UICC 22 UICC → ME 23 ME → UICC 24 UICC → ME 25 ME → UICC 26 ME → USER 27 ME → UICC 28 ME → USER 29 ME → USER 20 ME → UICC 30 ME → UICC 31 ME → UICC 32 ME → UICC 33 ME → UICC 34 ME → UICC 35 ME → UICC 36 ME → USER 36 ME → UICC 37 ME → UICC 38 ME → UICC 39 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 31 ME → UICC 32 ME → UICC 33 ME → UICC 34 ME → UICC 35 ME → UICC 36 ME → USER 36 ME → UICC 37 ME → UICC 38 ME → UICC 38 ME → UICC 39 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 31 ME → UICC 32 ME → UICC 33 ME → UICC 34 ME → UICC 35 ME → UICC 36 ME → UICC 36 ME → UICC 37 ME → UICC 38 ME → UICC 39 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 31 ME → UICC 32 ME → UICC 33 ME → UICC 34 ME → UICC 35 ME → UICC 36 ME → UICC 36 ME → UICC 37 ME → UICC 38 ME → UICC 39 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 31 ME → UICC 31 ME → UICC 32 ME → UICC 33 ME → UICC 34 ME → UICC 35 ME → UICC 36 ME → UICC 36 ME → UICC 37 ME → UICC 38 ME → UICC 38 ME → UICC 39 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 31 ME → UICC 31 ME → UICC 32 ME → UICC 32 ME → UICC 33 ME → UICC 34 ME → UICC 36 ME → UICC 37 ME → UICC 38 ME → UICC 38 ME → UICC 39 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 31 ME → UICC 31 ME → UICC 31 ME → UICC 32 ME → UICC 32 ME → UICC 33 ME → UICC 34 ME → UICC 34 ME → UICC 35 ME → UICC 36 ME → UICC 36 ME → UICC 37 ME → UICC 38 ME → UICC 39 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 30 ME → UICC 31 ME → UICC 31 ME → UICC 31 ME → UICC 32 ME → UICC 32 ME → UICC 33 ME → UICC 34 ME → UICC 34 ME → UICC 34 ME → UICC 35 ME → UICC 36 ME → UICC 36 ME → UICC 37 ME → UICC 37 ME → UICC 38 ME → UICC 38 ME → UICC 39 ME →	0			
10 UICC → ME S 4.5.2  11 ME → USER  12 ME → USS REGISTER 4.1B  13 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  14 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1  16 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1  18 ME → USER  19 ME → USER  19 ME → USER  10 ME → USER  10 ME → USER  11 ME → USER  12 UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1  13 ME → USER  14 ME → USER  15 UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1  16 ME → USER  17 ME → USER  18 ME → USER  19 ME → USER  19 ME → USER  10 ME → UICC  10 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.1.1B  20 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.1.1B  21 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  22 ME → UICC → ME SS 4.5.3  23 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  24 UICC → ME PROACTIVE COMMAND SEND SS 4.5.3  25 ME → USER  16 ME → USER  17 ME → USER  18 ME → UICC → ME PROACTIVE COMMAND SEND SS 4.5.3  26 ME → USER  18 ME → USER  19 ME → USER  10 ME → USER  10 ME → USER  10 ME → USER  11 ME → USER  12 ME → UICC  23 ME → UICC → ME PROACTIVE COMMAND SEND SS 4.5.3  24 ME → UICC → ME PROACTIVE COMMAND SEND SS 4.5.3  25 ME → USER  18 ME → USER  19 ME → USER  10 ME → USER  10 ME → USER  11 Message shall be formatted with normal font size]  12 ME → UICC → ME PROACTIVE COMMAND SEND SS 4.5.3  13 ME → USER  14 ME → USER  15 ME → USER  16 ME → USER  17 MESULT) 4.1B  18 ME → UICC → ME PROACTIVE COMMAND SEND SS 4.5.3  19 ME → UICC → ME PROACTIVE COMMAND SEND SS 4.5.3  26 ME → USER  27 ME → USER  28 ME → UICC → ME PROACTIVE COMMAND SEND SEND SEND SEND SEND SEND SEND SE	9	MF → UICC		
11	10		PROACTIVE COMMAND: SEND	
12 ME → USS   REGISTER 4.1B   RELEASE COMPLETE (SS RETURN RESULT) 4.1B   TERMINAL RESPONSE: SEND SS 4.1.1B   PROACTIVE COMMAND PENDING: SEND SS 4.5.1    16 ME → UICC → ME   PROACTIVE COMMAND: SEND SS 4.5.1    17 UICC → ME   PROACTIVE COMMAND: SEND SS 4.5.1    18 ME → USER   Display "Text Attribute 1"   [Message shall be formatted with small font size]    19 ME → USS   REGISTER 4.1B   RELEASE COMPLETE (SS RETURN RESULT) 4.1B   TERMINAL RESPONSE: SEND SS 4.1.1B    21 ME → UICC → ME   PROACTIVE COMMAND PENDING: SEND SS 4.1.1B    22 UICC → ME   PROACTIVE COMMAND PENDING: SEND SS 4.5.3    23 ME → UICC → ME   PROACTIVE COMMAND PENDING: SEND SS 4.5.3    24 UICC → ME   PROACTIVE COMMAND: SEND SS 4.5.3    25 ME → UICC → ME   REGISTER 4.1B   REJEASE COMPLETE (SS RETURN RESULT) 4.1B    26 ME → USS   REGISTER 4.1B   RELEASE COMPLETE (SS RETURN RESULT) 4.1B    27 USS → ME   REGISTER 4.1B   RELEASE COMPLETE (SS RETURN RESULT) 4.1B    28 ME → UICC   TERMINAL RESPONSE: SEND   REGISTER 4.1B    29 ME → USS REGISTER 4.1B   RELEASE COMPLETE (SS RETURN RESULT) 4.1B   RELEASE COMPLETE (SS RETURN RESULT) 4.1B    28 ME → UICC   TERMINAL RESPONSE: SEND   TERMINAL RESPONSE: SEND			SS 4.5.2	
12	11	$ME \rightarrow USER$	Display "Text Attribute 2"	1-
13 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  14 ME → UICC TERMINAL RESPONSE: SEND SS 4.1.1B  15 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.1  16 ME → UICC FETCH  17 UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1  18 ME → USS REGISTER 4.1B  20 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  21 ME → UICC → ME PROACTIVE COMMAND SS 4.5.3  22 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  23 ME → UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  24 UICC → ME PROACTIVE COMMAND SEND SS 4.5.3  25 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.3  26 ME → USS → ME REGISTER 4.1B  27 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  28 ME → UICC TERMINAL RESPONSE: SEND  29 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  20 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  21 ME → UICC TERMINAL RESPONSE: SEND  22 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  23 ME → UICC TERMINAL RESPONSE: SEND	12	MF → USS	REGISTER 4.1B	3126]
RETURN RESULT) 4.1B TERMINAL RESPONSE: SEND SS 4.1.1B PROACTIVE COMMAND PENDING: SEND SS 4.5.1 FETCH PROACTIVE COMMAND: SEND SS 4.5.1  ME → USER Display "Text Attribute 1"  ME → USER USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B REMINAL RESPONSE: SEND SS 4.1.1B  ME → UICC  ME → USER  ME → UICC  ME → USER  ME → US				[Successful]
SS 4.1.1B PROACTIVE COMMAND PENDING: SEND SS 4.5.1 FETCH PROACTIVE COMMAND: SEND SS 4.5.1  18 ME → USER  ME → USER  ME → USER  ME → USS  USS → ME  REGISTER 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B TERMINAL RESPONSE: SEND SS 4.1.1B PROACTIVE COMMAND PROMORD RETURN RESULT) 4.1B TERMINAL RESPONSE: SEND SS 4.1.1B PROACTIVE COMMAND PENDING: SEND SS 4.5.3 FETCH UICC → ME  WE → UICC  ME → USER  REGISTER 4.1B REGISTER 4.1B REGISTER 4.1B SS 4.5.3  [Message shall be formatted with normal font size]  [Successful]  [Successful]  [Successful]		7 11.12	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	[]
15 UICC → ME 16 ME → UICC 17 UICC → ME 18 ME → USER 19 ME → USS 20 USS → ME 21 ME → UICC 22 UICC → ME 22 UICC → ME 23 ME → UICC 24 UICC → ME 25 ME → USS 26 ME → USS 27 USS → ME 28 ME → UICC 28 ME → USS 29 ME → UICC 20 ME → USS 20 ME → UICC 21 ME → UICC 22 UICC → ME 23 ME → UICC 24 UICC → ME 25 ME → UICC 26 ME → USS 27 USS → ME 28 ME → UICC 28 ME → USS 29 ME → UICC 29 ME → USS 20 ME → USS 21 ME → UICC 24 UICC → ME 25 ME → USS 26 ME → USS 27 USS → ME 28 ME → UICC 28 ME → UICC 29 ME → USS 20 ME → USS 21 ME → USS 22 ME → USS 23 ME → USS 24 ME → USS 25 ME → USS 26 ME → USS 27 USS → ME 28 ME → UICC 29 PROACTIVE COMMAND 20 ME → USS 21 ME → USS 22 ME → USS 23 ME → USS 24 ME → USS 25 ME → USS 26 ME → USS 27 USS → ME 28 ME → UICC 28 ME → UICC 29 PROACTIVE COMMAND 29 ME → UICC 29 ME → USS 20 ME → USS 21 ME → USS 22 ME → UICC 23 ME → USS 24 ME → UICC 25 ME → USS 26 ME → USS 27 USS → ME 28 ME → UICC 29 PROACTIVE COMMAND 29 ME → UICC 20 ME → USS 21 ME → USS 22 ME → USS 23 ME → UICC 24 ME → USS 25 ME → USS 26 ME → USS 27 USS → ME 28 ME → UICC 29 PROACTIVE COMMAND 29 ME → UICC 20 ME → USS 20 ME → USS 21 ME → USS 22 ME → UICC 23 ME → UICC 24 ME → USS 25 ME → UICC 26 ME → USS 27 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 22 ME → UICC 23 ME → UICC 24 ME → UICC 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 22 MICC → ME 23 ME → UICC 24 MICC → ME 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 22 MICC → ME 23 ME → UICC 24 MICC → ME 24 MICC → ME 25 ME → UICC 26 ME → UICC 27 MICC → ME 27 MICC → ME 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 22 MICC → ME 23 ME → UICC 24 MICC → ME 24 MICC → ME 25 ME → UICC 26 ME → UICC 27 MICC → ME 26 ME → UICC 27 MICC → ME 27 MICC → ME 28 ME → UICC 29 MICC → ME 29 MICC → ME 20 MICC → ME 20 MICC → ME 20 MICC → ME 20 MICC →	14	$ME \rightarrow UICC$	TERMINAL RESPÓNSE: SEND	
PENDING: SEND SS 4.5.1    ME → UICC				
16 17ME → UICC UICC → MEFETCH PROACTIVE COMMAND: SEND SS 4.5.1Image: Comparison of the comparis	15	$UICC \to ME$		
17 UICC → ME PROACTIVE COMMAND: SEND SS 4.5.1  18 ME → USER Display "Text Attribute 1" [Message shall be formatted with small font size]  19 ME → USS REGISTER 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B  21 ME → UICC TERMINAL RESPONSE: SEND SS 4.1.1B PROACTIVE COMMAND PENDING: SEND SS 4.5.3 FETCH PROACTIVE COMMAND: SEND SS 4.5.3  23 ME → UICC → ME PROACTIVE COMMAND: SEND SS 4.5.3  25 ME → USER Display "Text Attribute 3" [Message shall be formatted with normal font size]  26 ME → USS REGISTER 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B [Successful]	4.0	ME		
18 ME → USER SS 4.5.1 Display "Text Attribute 1"  19 ME → USS REGISTER 4.1B 20 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B 21 ME → UICC TERMINAL RESPONSE: SEND SS 4.1.1B 22 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3 23 ME → UICC FETCH PROACTIVE COMMAND: SEND SS 4.5.3 24 UICC → ME PROACTIVE COMMAND: SEND SS 4.5.3 Display "Text Attribute 3"  26 ME → USER Display "Text Attribute 3"  27 ME → USS $\rightarrow$ ME REGISTER 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B				
18 ME → USER Display "Text Attribute 1" [Message shall be formatted with small font size]  19 ME → USS REGISTER 4.1B  20 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  21 ME → UICC SA RETURN RESPONSE: SEND SS 4.1.1B  22 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  23 ME → UICC PROACTIVE COMMAND: SEND SS 4.5.3  24 UICC → ME PROACTIVE COMMAND: SEND SS 4.5.3  25 ME → USER Display "Text Attribute 3" [Message shall be formatted with normal font size]  26 ME → USS REGISTER 4.1B  27 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  28 ME → UICC TERMINAL RESPONSE: SEND	17	UICC → ME		
19 ME $\rightarrow$ USS REGISTER 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B TERMINAL RESPONSE: SEND SS 4.1.1B  21 ME $\rightarrow$ UICC TERMINAL RESPONSE: SEND SS 4.1.1B  22 UICC $\rightarrow$ ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  23 ME $\rightarrow$ UICC FETCH PROACTIVE COMMAND: SEND SS 4.5.3  25 ME $\rightarrow$ USER Display "Text Attribute 3" [Message shall be formatted with normal font size]  26 ME $\rightarrow$ USS REGISTER 4.1B RELEASE COMPLETE (SS RETURN RESULT) 4.1B  27 USS $\rightarrow$ ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  28 ME $\rightarrow$ UICC TERMINAL RESPONSE: SEND	18	MF → USFR		[Message shall be formatted with small font
20 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  21 ME → UICC TERMINAL RESPONSE: SEND SS 4.1.1B  22 UICC → ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  23 ME → UICC FETCH PROACTIVE COMMAND: SEND SS 4.5.3  25 ME → USER Display "Text Attribute 3" [Message shall be formatted with normal font size]  26 ME → USS REGISTER 4.1B  27 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  28 ME → UICC TERMINAL RESPONSE: SEND		, , GOZ.K		. 0
21 ME $\rightarrow$ UICC TERMINAL RESULT) 4.1B TERMINAL RESPONSE: SEND SS 4.1.1B  22 UICC $\rightarrow$ ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  23 ME $\rightarrow$ UICC FETCH PROACTIVE COMMAND: SEND SS 4.5.3  25 ME $\rightarrow$ USER Display "Text Attribute 3" [Message shall be formatted with normal font size]  26 ME $\rightarrow$ USS $\rightarrow$ ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B [Successful]	19	$ME \rightarrow USS$	REGISTER 4.1B	
21 ME $\rightarrow$ UICC TERMINAL RESPONSE: SEND SS 4.1.1B  22 UICC $\rightarrow$ ME PROACTIVE COMMAND PENDING: SEND SS 4.5.3  23 ME $\rightarrow$ UICC FETCH  24 UICC $\rightarrow$ ME PROACTIVE COMMAND: SEND SS 4.5.3  25 ME $\rightarrow$ USER Display "Text Attribute 3" [Message shall be formatted with normal font size]  26 ME $\rightarrow$ USS $\rightarrow$ ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  28 ME $\rightarrow$ UICC TERMINAL RESPONSE: SEND	20	$USS \to ME$		[Successful]
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	21	$ME \rightarrow UICC$		
23 $ME \rightarrow UICC$ FETCH PROACTIVE COMMAND: SEND SS 4.5.3 25 $ME \rightarrow USER$ Display "Text Attribute 3" [Message shall be formatted with normal font size] 26 $ME \rightarrow USS$ REGISTER 4.1B [Successful] 27 $USS \rightarrow ME$ RELEASE COMPLETE (SS RETURN RESULT) 4.1B [Successful]	22	LUCC ME		
23 ME $\rightarrow$ UICC FETCH 24 UICC $\rightarrow$ ME PROACTIVE COMMAND: SEND SS 4.5.3 25 ME $\rightarrow$ USER Display "Text Attribute 3" [Message shall be formatted with normal font size] 26 ME $\rightarrow$ USS REGISTER 4.1B 27 USS $\rightarrow$ ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B 28 ME $\rightarrow$ UICC TERMINAL RESPONSE: SEND	22	UICC → ME		
24 UICC $\rightarrow$ ME PROACTIVE COMMAND: SEND SS 4.5.3  25 ME $\rightarrow$ USER Display "Text Attribute 3" [Message shall be formatted with normal font size]  26 ME $\rightarrow$ USS REGISTER 4.1B  27 USS $\rightarrow$ ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B  28 ME $\rightarrow$ UICC TERMINAL RESPONSE: SEND	23	MF → UICC		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
26 ME → USS REGISTER 4.1B 27 USS → ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B 28 ME → UICC TERMINAL RESPONSE: SEND		0.00 / WIE		
26 ME $\rightarrow$ USS REGISTER 4.1B 27 USS $\rightarrow$ ME RELEASE COMPLETE (SS RETURN RESULT) 4.1B 28 ME $\rightarrow$ UICC TERMINAL RESPONSE: SEND	25	$ME \rightarrow USER$	Display "Text Attribute 3"	
27 USS → ME RELEASE COMPLETE (SS [Successful]  RETURN RESULT) 4.1B  28 ME → UICC TERMINAL RESPONSE: SEND				size]
RETURN RESULT) 4.1B  28 ME → UICC TERMINAL RESPONSE: SEND				l
28 ME → UICC TERMINAL RESPONSE: SEND	27	$USS \to ME$		[Successful]
	20	ME LUCC		
I I ISS 4 1 1B I	20	IVIE → UICC	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	$UICC \to ME$	PROACTIVE COMMAND						
		PENDING: SEND SS 4.6.1						
2	$ME \rightarrow UICC$	FETCH						
3	$UICC \to ME$	PROACTIVE COMMAND: SEND						
		SS 4.6.1						
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with bold on]					
5	$ME \rightarrow USS$	REGISTER 4.1A						
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]					
_		RETURN RESULT) 4.1A						
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND						
8	LUCC ME	SS 4.1.1A PROACTIVE COMMAND						
0	$UICC \to ME$	PENDING: SEND SS 4.6.2						
9	ME → UICC	FETCH						
10	$VICC \rightarrow ME$	PROACTIVE COMMAND: SEND						
10		ISS 4.6.2						
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with bold off]					
12	ME → USS	REGISTER 4.1A	[g					
13	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]					
	7	RETURN RESULT) 4.1A	,					
14	$ME \rightarrow UICC$	TERMINAL RESPÓNSE: SEND						
		SS 4.1.1A						
15	$UICC \to ME$	PROACTIVE COMMAND						
		PENDING: SEND SS 4.6.1						
16	$ME \rightarrow UICC$	FETCH						
17	$UICC \to ME$	PROACTIVE COMMAND: SEND						
40		SS 4.6.1						
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]					
19	ME → USS	REGISTER 4.1A	10 (1)					
20	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]					
21	ME LUCC	RETURN RESULT) 4.1A TERMINAL RESPONSE: SEND						
21	$ME \rightarrow UICC$	ISS 4.1.1A						
22	UICC → ME	PROACTIVE COMMAND						
	OICC → IVIL	PENDING: SEND SS 4.6.3						
23	ME → UICC	FETCH						
24	UICC → ME	PROACTIVE COMMAND: SEND						
]	3.33 / W.L	SS 4.6.3						
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Message shall be formatted with bold off]					
26	$ME \rightarrow USS$	REGISTER 4.1A						
27	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]					
		RETURN RESULT) 4.1A	-					
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND						
		SS 4.1.1A						

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.6.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.6.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with bold on]
5	$ME \rightarrow USS$	REGISTER 4.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1B	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.6.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.6.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with bold off]
12	$ME \rightarrow USS$	REGISTER 4.1B	
13	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1B	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
15	LUCO ME	SS 4.1.1B PROACTIVE COMMAND	
15	$UICC \to ME$	PENDING: SEND SS 4.6.1	
16	ME → UICC	FETCH	
17	$VICC \rightarrow ME$	PROACTIVE COMMAND: SEND	
17	OICC - IVIE	ISS 4.6.1	
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with bold on]
19	ME → USS	REGISTER 4.1B	[Message shall be formatted with bold on]
20	USS → ME	RELEASE COMPLETE (SS	[Successful]
20		RETURN RESULT) 4.1B	[Oddocssial]
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
	WIE 7 0100	SS 4.1.1B	
22	$UICC \to ME$	PROACTIVE COMMAND	
	0.00 /	PENDING: SEND SS 4.6.3	
23	$ME \rightarrow UICC$	FETCH	
24	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.6.3	
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Message shall be formatted with bold off]
26	$ME \rightarrow USS$	REGISTER 4.1B	
27	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1B	
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.6.1

# Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

#### PROACTIVE COMMAND: SEND SS 4.6.2

### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

1												
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-TI V	- DO	2D	04	00	01	44	00	00	00	0.4	00	0.5
BER-TLV:	D0	20	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.7.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.7.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with italic on]
5	$ME \rightarrow USS$	REGISTER 4.1A	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1A	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1A	
8	$UICC \to ME$	PROACTIVE COMMAND	
9	ME → UICC	PENDING: SEND SS 4.7.2 FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND	
10		ISS 4.7.2	
11	ME → USER	Display "Text Attribute 2"	[Message shall be formatted with italic off]
12	ME → USS	REGISTER 4.1A	[coodge onan zo romanou man and on]
13	USS → ME	RELEASE COMPLETE (SS	[Successful]
	7 1412	RETURN RESULT) 4.1A	[Cuccocciu.]
14	$ME \rightarrow UICC$	TERMINAL RESPÓNSE: SEND	
		SS 4.1.1A	
15	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.7.1	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND	
40		SS 4.7.1	FRA 1 11 1 6 6 11 12 12 12 12 12 12 12 12 12 12 12 12
18	ME → USER	Display "Text Attribute 1"	[Message shall be formatted with italic on]
19	ME → USS	REGISTER 4.1A	[0
20	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
21	$ME \rightarrow UICC$	RETURN RESULT) 4.1A TERMINAL RESPONSE: SEND	
21	INIE → UICC	ISS 4.1.1A	
22	$UICC \to ME$	PROACTIVE COMMAND	
	OIGG / WIL	PENDING: SEND SS 4.7.3	
23	$ME \rightarrow UICC$	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND	
		SS 4.7.3	
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Message shall be formatted with italic off]
26	$ME \rightarrow USS$	REGISTER 4.1A	
27	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1A	
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1A	

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.7.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.7.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with italic on]
5	$ME \rightarrow USS$	REGISTER 4.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1B	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
0	ME 11100	PENDING: SEND SS 4.7.2	
9	ME → UICC	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 4.7.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with italic off]
12	$ME \rightarrow USS$	REGISTER 4.1B	
13	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1B	,
14	$ME \rightarrow UICC$	TERMINAL RESPÓNSE: SEND	
		SS 4.1.1B	
15	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.7.1	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.7.1	
18	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with italic on]
19	$ME \rightarrow USS$	REGISTER 4.1B	
20	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
0.4		RETURN RESULT) 4.1B	
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
00	11100 145	SS 4.1.1B	
22	$UICC \to ME$	PROACTIVE COMMAND	
22	ME LUCC	PENDING: SEND SS 4.7.3 FETCH	
23 24	ME → UICC	PROACTIVE COMMAND: SEND	
24	$UICC \to ME$	ISS 4.7.3	
25	ME → USER	Display "Text Attribute 3"	[Message shall be formatted with italic off]
26	$ME \rightarrow USS$	REGISTER 4.1B	[ssage shall be formatted with italie on]
27	USS → ME	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1B	[Cuccocciai]
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
	/ 2.30	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-TI V	- DO	2D	04	00	01	44	00	00	00	0.4	00	0.5
BER-TLV:	D0	20	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.8.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.8.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with underline
			on]
5	$ME \rightarrow USS$	REGISTER 4.1A	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
_		RETURN RESULT) 4.1A	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
	LUCO ME	SS 4.1.1A	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 4.8.2	
9	ME → UICC	FETCH	
10	$UICC \rightarrow ME$	PROACTIVE COMMAND: SEND	
10		ISS 4.8.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with underline
	, 00		off]
12	$ME \rightarrow USS$	REGISTER 4.1A	•
13	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1A	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1A	
15	$UICC \to ME$	PROACTIVE COMMAND	
40		PENDING: SEND SS 4.8.1	
16	ME → UICC	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND ISS 4.8.1	
18	ME LICED	Display "Text Attribute 1"	Message shall be formatted with underline
10	$ME \rightarrow USER$	Display Text Attribute 1	on]
19	$ME \to USS$	REGISTER 4.1A	
20	USS → ME	RELEASE COMPLETE (SS	[Successful]
	7 11.2	RETURN RESULT) 4.1A	[Carrows and
21	$ME \rightarrow UICC$	TERMINAL RESPÓNSE: SEND	
		SS 4.1.1A	
22	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.8.3	
23	$ME \rightarrow UICC$	FETCH	
24	$UICC \to ME$	PROACTIVE COMMAND: SEND	
25	ME LIGER	SS 4.8.3	[Manager shall be formatted with wederling
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Message shall be formatted with underline off]
26	$ME \rightarrow USS$	REGISTER 4.1A	Onj
27	USS → ME	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1A	[Cuccocociui]
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1A	

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
	.45	PENDING: SEND SS 4.8.1	
2 3	ME → UICC	FETCH PROACTIVE COMMAND: SEND	
3	$UICC \to ME$	ISS 4.8.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with underline on]
5	$ME \rightarrow USS$	REGISTER 4.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
_		RETURN RESULT) 4.1B	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND ISS 4.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
	OICC - IVIL	PENDING: SEND SS 4.8.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.8.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with underline
12	ME LICE	REGISTER 4.1B	off]
13	$\begin{array}{c} ME \to USS \\ USS \to ME \end{array}$	RELEASE COMPLETE (SS	[Successful]
13		RETURN RESULT) 4.1B	[Ouccessiui]
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1B	
15	$UICC \to ME$	PROACTIVE COMMAND	
4.0	ME	PENDING: SEND SS 4.8.1	
16 17	ME → UICC	FETCH PROACTIVE COMMAND: SEND	
17	$UICC \to ME$	ISS 4.8.1	
18	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with underline on]
19	$ME \rightarrow USS$	REGISTER 4.1B	
20	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1B	
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
22	LUCC ME	SS 4.1.1B PROACTIVE COMMAND	
22	UICC → ME	PENDING: SEND SS 4.8.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND	
		SS 4.8.3	
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Message shall be formatted with underline
26	$ME \rightarrow USS$	REGISTER 4.1B	off]
27	USS → ME	RELEASE COMPLETE (SS	[Successful]
	SOC / IVIL	RETURN RESULT) 4.1B	[
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1B	

# PROACTIVE COMMAND: SEND SS 4.8.1

## Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

### PROACTIVE COMMAND: SEND SS 4.8.2

### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

### PROACTIVE COMMAND: SEND SS 4.8.3

# Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 3"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

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

### 27.22.4.11.4.8.5 Test requirement

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

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

27.22.4.11.4.9.1 Definition and applicability

See clause 3.2.2.

27.22.4.11.4.9.2 Conformance requirement

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

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

### 27.22.4.11.4.9.3 Test purpose

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

27.22.4.11.4.9.4 Method of test

27.22.4.11.4.9.4.1 Initial conditions

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

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

## 27.22.4.11.4.9.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.9.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.9.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with
			strikethrough on]
5	$ME \rightarrow USS$	REGISTER 4.1A	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
_		RETURN RESULT) 4.1A	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
	11100 145	SS 4.1.1A	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND SS 4.9.2	
9	ME THOO	FETCH	
10	$ME \rightarrow UICC$ $UICC \rightarrow ME$	PROACTIVE COMMAND: SEND	
10	OICC → IVIE	SS 4.9.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with
	, , , , , , , , , , , , , , , , , , , ,		strikethrough off]
12	$ME \to USS$	REGISTER 4.1A	ŭ ,
13	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1A	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
4-		SS 4.1.1A	
15	$UICC \to ME$	PROACTIVE COMMAND	
16	ME LUCC	PENDING: SEND SS 4.9.1	
17	ME → UICC	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND ISS 4.9.1	
18	ME → USER	Display "Text Attribute 1"	Message shall be formatted with
10	IVIL -> USLIX	Display Text / ttilloute 1	strikethrough on]
19	$ME \rightarrow USS$	REGISTER 4.1A	
20	USS → ME	RELEASE COMPLETE (SS	[Successful]
	000 /	RETURN RESULT) 4.1A	,
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1A	
22	$UICC \to ME$	PROACTIVE COMMAND	
66		PENDING: SEND SS 4.9.3	
23	ME → UICC	FETCH	
24	$UICC \to ME$	PROACTIVE COMMAND: SEND	
25	ME LICES	SS 4.9.3	Message shall be formatted with
20	$ME \rightarrow USER$	Display "Text Attribute 3"	strikethrough off]
26	$ME \to USS$	REGISTER 4.1A	our would be a second of the s
27	USS → ME	RELEASE COMPLETE (SS	[Successful]
-	JOO - IVIL	RETURN RESULT) 4.1A	[
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1A	

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.9.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND SS 4.9.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with strikethrough on]
5	$ME \rightarrow USS$	REGISTER 4.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
_		RETURN RESULT) 4.1B	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
8	$UICC \to ME$	SS 4.1.1B PROACTIVE COMMAND	
		PENDING: SEND SS 4.9.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.9.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with
4.0		DE01075D 4.45	strikethrough off]
12	ME → USS	REGISTER 4.1B	[Cupacatul]
13	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME → UICC	TERMINAL RESPONSE: SEND	
	WIE 70100	SS 4.1.1B	
15	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.9.1	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND	
18	ME → USER	SS 4.9.1 Display "Text Attribute 1"	[Message shall be formatted with
10	IVIE → USER	Display Text Attribute 1	strikethrough on]
19	$ME \rightarrow USS$	REGISTER 4.1B	outhour ought on
20	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1B	-
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
00		SS 4.1.1B	
22	$UICC \to ME$	PROACTIVE COMMAND	
23	ME → UICC	PENDING: SEND SS 4.9.3 FETCH	
23	$   ME \to OICC $ $   UICC \to ME $	PROACTIVE COMMAND: SEND	
		SS 4.9.3	
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Message shall be formatted with
1			strikethrough off]
26	$ME \rightarrow USS$	REGISTER 4.1B	
27	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
20	ME	RETURN RESULT) 4.1B	
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND SS 4.1.1B	
		טו זו ד טטן	

# 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.10.1	
2	/ 0.00	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.10.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with foreground
			and background colour according to text
_	ME	REGISTER 4.1A	attribute configuration]
5	IIIL / 000		
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
_		RETURN RESULT) 4.1A	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
8		SS 4.1.1A PROACTIVE COMMAND	
8	$UICC \to ME$	PENDING: SEND SS 4.10.2	
9	ME → UICC		
10			
10	$UICC \to ME$	ISS 4.10.2	
11	ME → USER		Message shall be formatted with ME's default
''	IVIE → USER	Display Text Attribute 2	foreground and background colour]
12	$ME \rightarrow USS$	REGISTER 4.1A	loreground and background colour
13	USS → ME	RELEASE COMPLETE (SS	[Successful]
		RETURN RESULT) 4.1A	
14	ME → UICC	TERMINAL RESPONSE: SEND	
'-	IVIL -> OICC	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND SS 4.10.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		SS 4.10.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with foreground
			and background colour according to text
_		DE010TED 4 4B	attribute configuration]
5	/ 000	REGISTER 4.1B	
6	$USS \to ME$	RELEASE COMPLETE (SS	[Successful]
_		RETURN RESULT) 4.1B	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		SS 4.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
	ME LUCC	PENDING: SEND SS 4.10.2	
9	ME → UICC		
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	
44	ME LIGED	SS 4.10.2	[Manager of the Heat forward the devicts   ME's defectly
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with ME's default foreground and background colour]
12	ME → USS	REGISTER 4.1B	loreground and background colour
13			[Cuccoccful]
13	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1B	[Successful]
14	ME LUCC	,	
14	INIE → DICC		
14	$ME \rightarrow UICC$	TERMINAL RESPÓNSE: SEND SS 4.1.1B	

PROACTIVE COMMAND: SEND SS 4.10.1

Logically:

Command details

Command number:

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

### Coding:

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

### PROACTIVE COMMAND: SEND SS 4.10.2

### Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

### Coding:

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

### 27.22.4.11.4.10.5 Test requirement

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

# 27.22.4.11.5 SEND SS (UCS2 display in Chinese)

### 27.22.4.11.5.1 Definition and applicability

See clause 3.2.2.

### 27.22.4.11.5.2 Conformance requirement

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

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

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

### 27.22.4.11.5.3 Test purpose

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

### 27.22.4.11.5.4 Method of test

### 27.22.4.11.5.4.1 Initial conditions

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

#### 27.22.4.11.5.4.2 Procedure

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

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

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

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

PROACTIVE COMMAND: SEND SS 5.1.1

Logically:

Command details

Command number:

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)
Text: "你好"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

### Coding:

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

#### **REGISTER 5.1A**

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

**REGISTER 5.1B** 

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

### RELEASE COMPLETE (SS RETURN RESULT) 5.1A

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

RELEASE COMPLETE (SS RETURN RESULT) 5.1B

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

TERMINAL RESPONSE: SEND SS 5.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

TERMINAL RESPONSE: SEND SS 5.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

## 27.22.4.11.5.5 Test requirement

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

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

### 27.22.4.11.6.1 Definition and applicability

See clause 3.2.2.

# 27.22.4.11.6.2 Conformance requirement

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

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

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

### 27.22.4.11.6.3 Test purpose

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

### 27.22.4.11.6.4 Method of test

#### 27.22.4.11.6.4.1 Initial conditions

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

### 27.22.4.11.6.4.2 Procedure

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

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

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

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

### PROACTIVE COMMAND: SEND SS 6.1.1

## Logically:

Command details

Command number: 1

Command type: SEND SS Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)

Text: "ル"

SS String

TON: International

NPI: "ISDN / telephone numbering plan" SS string: "\*\*21\*01234567890123456789\*10#"

Coding:

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

**REGISTER 6.1A** 

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1A

**REGISTER 6.1B** 

Same as cl 27.22.4.11.1.4.2 REGISTER 1.1B

RELEASE COMPLETE (SS RETURN RESULT) 6.1A

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

RELEASE COMPLETE (SS RETURN RESULT) 6.1B

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

TERMINAL RESPONSE: SEND SS 6.1.1A

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1A

TERMINAL RESPONSE: SEND SS 6.1.1B

Same as cl 27.22.4.11.1.4.2 TERMINAL RESPONSE: SEND SS 1.1.1B

27.22.4.11.6.5 Test requirement

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

27.22.4.12 SEND USSD

27.22.4.12.1 SEND USSD (normal)

27.22.4.12.1.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.1.2 Conformance requirement

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

- TS 31.111 [15] clause 6.1, clause 6.4.12, clause 6.6.11, clause 8.12.7, clause 5.2, clause 8.6, clause 8.7, clause 8.2, clause 8.17, clause 8.31 and clause 6.5.
- TS 23.038 [7] clause 5

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

### 27.22.4.12.1.3 Test purpose

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

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

### 27.22.4.12.1.4 Method of test

#### 27.22.4.12.1.4.1 Initial conditions

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

#### 27.22.4.12.1.4.2 Procedure

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

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

### PROACTIVE COMMAND: SEND USSD 1.1.1

### Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "7-bit USSD"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

### Coding:

BER-TLV:	D0	50	81	03	01	12	00	82	02	81	83	85
	0A	37	2D	62	69	74	20	55	53	53	44	8A
	39	F0	41	E1	90	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	В3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E5	60		

### **REGISTER 1.1**

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

### Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	<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	В3	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-TL <sup>∨</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	80	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 1.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 1.2.1	
4	$ME \rightarrow USER$	Display "8-bit USSD"	
5	$ME \to USS$	REGISTER 1.2	
6	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 1.2	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		USSD 1.2.1	

PROACTIVE COMMAND: SEND USSD 1.2.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "8-bit USSD"

**USSD String** 

Data coding scheme: Uncompressed, no message class meaning, 8-bit data

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Coding:

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

### **REGISTER 1.2**

Logically (only USSD argument):

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- Uncompressed, no message class meaning, 8-bit data

USSD string:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

Coding:

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

## RELEASE COMPLETE (SS RETURN RESULT) 1.2

Logically (only from USSD result):

ProcessUnstructuredSS-Request RETURN RESULT

USSD-DataCodingScheme:

- Uncompressed, no message class meaning, 8-bit data

USSD string:

- "USSD string received from SS"

### Coding:

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

TERMINAL RESPONSE: SEND USSD 1.2.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: Uncompressed, no message class meaning, 8-bit data

String: "USSD string received from SS"

Coding:

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

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		USSD 1.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 1.3.1	
4	$ME \rightarrow USER$	Display "UCS2 USSD"	
5	$ME \to USS$	REGISTER 1.3	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT)	["USSD string received from SS"]
		1.3	-
7	$ME \rightarrow UICC$	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	80	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	$ME \rightarrow USER$	Display "7-bit USSD"	
5	$ME \to USS$	REGISTER 1.1	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN ERROR) 1.1	Return Error
7	$ME \rightarrow UICC$	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:

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND USSD 1.1.1	
2	$ME \rightarrow UICC$		
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 1.1.1	
4	$ME \rightarrow USER$	Display "7-bit USSD"	
5	$ME \rightarrow USS$	REGISTER 1.1	
6	$USS \to ME$	RELEASE COMPLETE (SS REJECT) 1.1	Reject
7	$ME \rightarrow UICC$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		USSD 1.6.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 1.6.1	
4	$ME \to USER$	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	$ME \to USS$	REGISTER 1.1	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN	["USSD string received from SS"]
		RESULT) 1.1	
7	$ME \to UICC$	TERMINAL RESPONSE: SEND USSD 1.1.1	

PROACTIVE COMMAND: SEND USSD 1.6.1

## Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "once a RELEASE COMPLETE message containing the USSD Return Result

message not containing an error has been received from the network, the ME shall

inform the SIM that the command has"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

## Coding:

BER-TLV:	D0	81	FD	81	03	01	12	00	82	02	81	83
	85	81	B6	6F	6E	63	65	20	61	20	52	45
	4C	45	41	53	45	20	43	4F	4D	50	4C	45
	54	45	20	6D	65	73	73	61	67	65	20	63
	6F	6E	74	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	<sup>7</sup> 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	СВ
	E6	33	3A	AD	5E	В3	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		USSD 1.7.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 1.7.1	
4	$ME \to USER$	Optionally display an informative message	
5	$ME \to USS$	REGISTER 1.1	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT)	["USSD string received from SS"]
		1.1	
7	$ME \to UICC$	TERMINAL RESPONSE: SEND USSD 1.1.1	

## PROACTIVE COMMAND: SEND USSD 1.7.1

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Coding:

BER-TLV:	D0	44	81	03	01	12	00	82	02	81	83	8A
	39	F0	41	E1	90	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	В3
	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		USSD 1.8.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 1.8.1	
4	$ME \rightarrow USER$	the ME should not give any information to the	
		user on the fact that the ME is sending a USSD	
		request	
5	$ME \to USS$	REGISTER 1.1	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT)	["USSD string received from SS"]
		1.1	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 1.1.1	

# PROACTIVE COMMAND: SEND USSD 1.8.1

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: ""

USSD String

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

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	В3	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		USSD 2.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 2.1.1	[BASIC-ICON, self-explanatory]
4	$ME \rightarrow USER$	Display BASIC ICON	
5	$ME \to USS$	REGISTER 2.1	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN	["USSD string received from SS"]
		RESULT) 2.1	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 2.1.1A	[Command performed successfully]

#### PROACTIVE COMMAND: SEND USSD 2.1.1

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Basic Icon"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Icon Identifier:

 $\begin{array}{ll} \text{Icon qualifier:} & \text{icon is self-explanatory} \\ \text{Icon Identifier:} & \text{record 1 in } EF_{\text{(IMG)}} \\ \end{array}$ 

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	В3
	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
	00	01										

#### **REGISTER 2.1**

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

# Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	<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	В3	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	80	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 2.1.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[BASIC-ICON, self-explanatory]
		USSD 2.1.1	
4	$ME \to USER$	Display "Basic Icon" without the	
		icon	
5	$ME \to USS$	REGISTER 2.1	
6	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 2.1	
7	$ME \to UICC$	TERMINAL RESPONSE: SEND	[Command performed but requested icon
		USSD 2.1.1B	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"

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 2.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[COLOUR-ICON, self-explanatory]
		USSD 2.2.1	
4	$ME \rightarrow USER$	Display COLOUR-ICON	
		or	
		May give information to user	
		concerning what is happening	
5	$ME \to USS$	REGISTER 2.1	
6	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 2.1	
7	$ME \rightarrow UICC$		[Command performed successfully]
		USSD 2.1.1A	or
		or	[Command performed but requested icon
		TERMINAL RESPONSE: SEND	could not be displayed]
		USSD 2.1.1B	

PROACTIVE COMMAND: SEND USSD 2.2.1

#### Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Color Icon"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Icon Identifier:

Icon qualifier: icon is self-explanatory Icon Identifier: record 2 in  $EF_{(IMG)}$ 

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>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	В3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	<b>E</b> <sup>5</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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 2.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	[BASIC-ICON, non self-explanatory]
		USSD 2.3.1	
4	$ME \rightarrow USER$	Display "Basic Icon" and BASIC-	
		ICON	
_		DEGLOTED & 4	
5	IIIL / 000	REGISTER 2.1	
6	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 2.1	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		USSD 2.1.1A	

PROACTIVE COMMAND: SEND USSD 2.3.1

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Basic Icon"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Icon Identifier

Icon qualifier: icon is non self-explanatory

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

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	$UICC \to$	PROACTIVE COMMAND	
	ME	PENDING: SEND USSD 2.3.1	
2	ME  o	FETCH	
	UICC		
3	$UICC \to$	PROACTIVE COMMAND: SEND	[BASIC-ICON, non self-explanatory]
	ME	USSD 2.3.1	
4	ME  o	Display "Basic Icon" without the	
	USER	icon	
5	$ME \rightarrow USS$	REGISTER 2.1	
6	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 2.1	
7	$ME \to$	TERMINAL RESPONSE: SEND	[Command performed but requested icon
	UICC	USSD 2.1.1B	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	$UICC \to$	PROACTIVE COMMAND	
	ME	PENDING: SEND USSD 2.4.1	
2	ME  o	FETCH	
	UICC		
3	$UICC \to$	PROACTIVE COMMAND: SEND	[BASIC-ICON, non self-explanatory]
	ME	USSD 2.4.1	
4	ME  o	TERMINAL RESPONSE: SEND	[Command data not understood by ME]
	UICC	USSD 2.4.1	·

PROACTIVE COMMAND: SEND USSD 2.4.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

Icon Identifier

Icon qualifier: icon is non self-explanatory

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

Coding:

BER-TLV:	D0	48	81	03	01	12	00	82	02	81	83	8A
	39	F0	41	E1	90	58	34	1E	91	49	E5	92
	D9	74	3E	A1	51	E9	94	5A	B5	5E	B1	59
	6D	2B	2C	1E	93	CB	E6	33	3A	AD	5E	B3
	DB	EE	37	3C	2E	9F	D3	EB	F6	3B	3E	AF
	6F	C5	64	33	5A	CD	76	C3	E <sup>5</sup>	60	9E	02
	01	01										

TERMINAL RESPONSE: SEND USSD 2.4.1

#### Logically:

Command details

Command number:

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		USSD 3.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 3.1.1	
4	$ME \rightarrow USER$	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	$ME \to USS$	REGISTER 3.1	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN	[Successful]
		RESULT) 3.1	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 3.1.1	[Command performed successfully]

#### PROACTIVE COMMAND: SEND USSD 3.1.1

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)
Text: "ЗДРАВСТВУЙТЕ"

**USSD String** 

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

USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

# Coding:

BER-TLV:	D0	5F	81	03	01	12	00	82	02	81	83	85
'-	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	8A	39	F0	41	E1	90	58	34	1E	91
	49	E5	92	D9	74	3E	A1	51	E9	94	5A	B5
	5E	B1	59	6D	2B	2C	1E	93	CB	E6	33	3A
	AD	5E	В3	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-Data Coding Scheme:

- 7-bit default, no message class

USSD String:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

# Coding:

BER-TLV	30	3D	04	01	F0	04	38	41	E1	90	58	<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) 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-TL <sup>∨</sup>	30	1E	04	01	F0	04	19	D5	E9	94	80	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	80	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.1.1	
2			
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.1.1	
4		Display "Text Attribute 1"	[Alpha identifier is displayed with left alignment]
5	$ME \rightarrow USS$	REGISTER 4.1	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	$ME \rightarrow UICC$		
		USSD 4.1.1	
8	$UICC \to ME$	PROACTIVE COMMAND	
_		PENDING: SEND USSD 4.1.2	
9	ME → UICC		
10	$\bigcup UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.1.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/13, no alignment change will take place]
12	$ME \rightarrow USS$	REGISTER 4.1	
13	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 4.1	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		USSD 4.1.1	

#### PROACTIVE COMMAND: SEND USSD 4.1.1

## Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

#### Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
_	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

#### PROACTIVE COMMAND: SEND USSD 4.1.2

#### Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

#### Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

### **REGISTER 4.1**

Logically (only USSD argument)

ProcessUnstructuredSS-Request ARGUMENT

USSD-DataCodingScheme:

- 7-bit default, no message class

USSD string:

- "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-1234567890"

# Coding:

Coding	30	3D	04	01	F0	04	40	41	E1	90	58	<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) 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	80	9A	D3	E5
	69	F7	19	24	2F	8F	CB	69	7B	99	0C
	32	СВ	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.2.1	
2	$ME \rightarrow UICC$		
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.2.1	
4		Display "Text Attribute 1"	[Alpha identifier is displayed with center alignment]
5	$ME \to USS$	REGISTER 4.1	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME → UICC	*	
,	IVIL -> 0100	USSD 4.2.1	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.2.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.2.2	
11	$ME \rightarrow USER$	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	1.27 10, 110 alignment orlange will take place]
13	USS → ME	RELEASE COMPLETE (SS	["USSD string received from SS"]
	OCC / IVIL	RETURN RESULT) 4.1	[
14	ME → UICC		
		USSD 4.2.1	

#### PROACTIVE COMMAND: SEND USSD 4.2.1

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

#### Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
·	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	01	B4		

#### PROACTIVE COMMAND: SEND USSD 4.2.2

#### Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

#### Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	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	80	9A	D3	E5
	69	F7	19	24	2F	8F	СВ	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	$UICC \to ME$	PROACTIVE COMMAND	
_		PENDING: SEND USSD 4.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.3.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with right alignment]
5	$ME \rightarrow USS$	REGISTER 4.1	
6	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 4.1	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		USSD 4.3.1	
8	$UICC \rightarrow ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.3.2	
9	11112 / 0100	FETCH	
10	$UICC \rightarrow ME$	PROACTIVE COMMAND: SEND	
		USSD 4.3.2	
11	$ME \rightarrow USER$	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
4.0		DE010TED 4.4	A.2/13, no alignment change will take place]
12	, 555	REGISTER 4.1	
13	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
1		RETURN RESULT) 4.1	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
1		USSD 4.3.1	

#### PROACTIVE COMMAND: SEND USSD 4.3.1

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

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	В3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	02	B4		

## PROACTIVE COMMAND: SEND USSD 4.3.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
·	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	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"

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	СВ	69	7B	99	0C
	32	СВ	DF	6D	D0	74	0A				

450

#### 27.22.4.12.4.3.5 Test requirement

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

#### 27.22.4.12.4.4 SEND USSD (support of Text Attribute – Large Font Size)

#### 27.22.4.12.4.4.1 Definition and applicability

See clause 3.2.2.

# 27.22.4.12.4.4.2 Conformance requirement

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

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

#### 27.22.4.12.4.4.3 Test purpose

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

#### 27.22.4.12.4.4.4 Method of test

#### 27.22.4.12.4.4.4.1 Initial conditions

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

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

# 27.22.4.12.4.4.4.2 Procedure

# Expected Sequence 4.4 (SEND USSD, 7-bit data, successful, with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.4.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.4.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with large font size]
5	$ME \to USS$	REGISTER 4.1	_
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 4.4.1	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND USSD 4.4.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.4.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Alpha identifier is displayed with normal font size]
12	$ME \to USS$	REGISTER 4.1	-
13	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 4.4.1	
15	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND USSD 4.4.1	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.4.1	
18	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with large font size]
19	$ME \to USS$	REGISTER 4.1	
20	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 4.4.1	
22	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND USSD 4.4.3	
23	$ME \rightarrow UICC$	FETCH	
24	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.4.3	
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Alpha identifier is displayed with normal font size]
26	$ME \to USS$	REGISTER 4.1	•
27	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
28	$ME \rightarrow UICC$	RETURN RESULT) 4.1 TERMINAL RESPONSE: SEND USSD 4.4.1	
	l	0000	1

# PROACTIVE COMMAND: SEND USSD 4.4.1

# Logically:

Command details

Command number:

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	04	B4		

#### PROACTIVE COMMAND: SEND USSD 4.4.2

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
_	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

#### PROACTIVE COMMAND: SEND USSD 4.4.3

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 3"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	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	СВ	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.5.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.5.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with small font size]
5	$ME \to USS$	REGISTER 4.1	_
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	$ME \rightarrow UICC$	TERMINAL RESPÓNSE: SEND USSD 4.5.1	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND USSD 4.5.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.5.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Alpha identifier is displayed with normal font size]
12	$ME \to USS$	REGISTER 4.1	-
13	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 4.5.1	
15	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND USSD 4.5.1	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.5.1	
18	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with small font size]
19	$ME \to USS$	REGISTER 4.1	
20	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 4.5.1	
22	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND USSD 4.5.3	
23	$ME \rightarrow UICC$	FETCH	
24	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.5.3	
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Alpha identifier is displayed with normal font size]
26	$ME \to USS$	REGISTER 4.1	•
27	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
28	$ME \rightarrow UICC$	RETURN RESULT) 4.1 TERMINAL RESPONSE: SEND USSD 4.5.1	
	I	10000 1.0.1	

# PROACTIVE COMMAND: SEND USSD 4.5.1

# Logically:

Command details

Command number:

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0
Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	08	B4		

#### PROACTIVE COMMAND: SEND USSD 4.5.2

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	F5	60	D0	04	00	10	00	B4		

#### PROACTIVE COMMAND: SEND USSD 4.5.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 3"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

#### Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.5.1

Logically:

Command details

Command number:

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	СВ	69	7B	99	0C
	32	СВ	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.6.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.6.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with bold on]
5	$ME \rightarrow USS$	REGISTER 4.1	
6	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
_		RETURN RESULT) 4.1	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
	11100 145	USSD 4.6.1	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND USSD 4.6.2	
9	ME → UICC	FETCH	
10	$   ME \to OICC $ $   UICC \to ME $	PROACTIVE COMMAND: SEND	
10		USSD 4.6.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Alpha identifier is displayed with bold off]
12	ME → USS	REGISTER 4.1	[ inprior recommended and prayed many series on [
13	USS → ME	RELEASE COMPLETE (SS	["USSD string received from SS"]
	7 1/12	RETURN RESULT) 4.1	l coop aming received ment of 1
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		USSD 4.6.1	
15	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.6.1	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.6.1	
18	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with bold on]
19	$ME \rightarrow USS$	REGISTER 4.1	
20	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
04	11100	RETURN RESULT) 4.1	
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
22	LUCC ME	USSD 4.6.1 PROACTIVE COMMAND	
22	$UICC \to ME$	PENDING: SEND USSD 4.6.3	
23	ME → UICC	FETCH	
24	$VICC \rightarrow ME$	PROACTIVE COMMAND: SEND	
	JIOO → IVIE	USSD 4.6.3	
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Alpha identifier is displayed with bold off]
26	ME → USS	REGISTER 4.1	, , , , , , , , , , , , , , , , , , , ,
27	USS → ME	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 4.1	
28	$ME \rightarrow UICC$	TERMINAL RESPÓNSE: SEND	
		USSD 4.6.1	

# PROACTIVE COMMAND: SEND USSD 4.6.1

# Logically:

Command details

Command number:

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	10	B4		

PROACTIVE COMMAND: SEND USSD 4.6.2

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

**USSD** String

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	F5	60	D0	04	00	10	00	B4		

PROACTIVE COMMAND: SEND USSD 4.6.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 3"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	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	СВ	69	7B	99	0C
	32	СВ	DF	6D	D0	74	0A				

27.22.4.12.4.6.5 Test requirement

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

27.22.4.12.4.7 SEND USSD (support of Text Attribute – Italic On)

27.22.4.12.4.7.1 Definition and applicability

See clause 3.2.2.

27.22.4.12.4.7.2 Conformance requirement

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

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

#### 27.22.4.12.4.7.3 Test purpose

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

#### 27.22.4.12.4.7.4 Method of test

#### 27.22.4.12.4.7.4.1 Initial conditions

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

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

#### 27.22.4.12.4.7.4.2 Procedure

# Expected Sequence 4.7 (SEND USSD, 7-bit data, successful, with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.7.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.7.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with italic on]
5	$ME \rightarrow USS$	REGISTER 4.1	
6	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 4.1	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		USSD 4.7.1	
8	$UICC \to ME$	PROACTIVE COMMAND	
9	ME LUCC	PENDING: SEND USSD 4.7.2 FETCH	
10	ME → UICC	PROACTIVE COMMAND: SEND	
10	$UICC \to ME$	USSD 4.7.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with italic off]
12	ME → USS	REGISTER 4.1	[/ tipria identifier is displayed with fidile on]
13	USS → ME	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 4.1	[ COOD string reserved from CO ]
14	ME → UICC	TERMINAL RESPONSE: SEND	
	, 0.00	USSD 4.7.1	
15	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.7.1	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.7.1	
18	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with italic on]
19	$ME \rightarrow USS$	REGISTER 4.1	
20	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
04		RETURN RESULT) 4.1	
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 4.7.1	
22	$UICC \to ME$	PROACTIVE COMMAND	
22	OICC → ME	PENDING: SEND USSD 4.7.3	
23	ME → UICC	FETCH	
24	$VICC \rightarrow ME$	PROACTIVE COMMAND: SEND	
	UIOO → IVIL	USSD 4.7.3	
25	ME → USER	Display "Text Attribute 3"	[Alpha identifier is displayed with italic off]
26	ME → USS	REGISTER 4.1	, 1911
27	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 4.1 `	-
28	$ME \rightarrow UICC$	TERMINAL RESPÓNSE: SEND	
		USSD 4.7.1	

#### PROACTIVE COMMAND: SEND USSD 4.7.1

#### Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

#### Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	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:

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

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	В3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

## PROACTIVE COMMAND: SEND USSD 4.7.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 3"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

# Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

#### TERMINAL RESPONSE: SEND USSD 4.7.1

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Text String

Data coding scheme: 7-bit default, no message class String: "USSD string received from SS"

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	СВ	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.8.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.8.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with underline
			on]
5	$ME \rightarrow USS$	REGISTER 4.1	
6	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
_		RETURN RESULT) 4.1	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		USSD 4.8.1	
8	$UICC \to ME$	PROACTIVE COMMAND	
	ME	PENDING: SEND USSD 4.8.2	
9	ME → UICC	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.8.2	
11	ME → USER	Display "Text Attribute 2"	[Alpha identifier is displayed with underline
'''	IVIE -> USER	Display Text Attribute 2	off]
12	$ME \rightarrow USS$	REGISTER 4.1	
13	USS → ME	RELEASE COMPLETE (SS	["USSD string received from SS"]
	000 → IVIL	RETURN RESULT) 4.1	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
	/ 0.00	USSD 4.8.1	
15	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.8.1	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.8.1	
18	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with underline
			on]
19	$ME \rightarrow USS$	REGISTER 4.1	
20	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
24	ME	RETURN RESULT) 4.1 TERMINAL RESPONSE: SEND	
21	$ME \rightarrow UICC$	USSD 4.8.1	
22	LUCC ME	PROACTIVE COMMAND	
	$UICC \to ME$	PENDING: SEND USSD 4.8.3	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: SEND	
	JIJJ → IVIL	USSD 4.8.3	
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Alpha identifier is displayed with underline
1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	off]
26	$ME \to USS$	REGISTER 4.1	-
27	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 4.1	
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		USSD 4.8.1	

# PROACTIVE COMMAND: SEND USSD 4.8.1

# Logically:

Command details

Command number:

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
-	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	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:

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

#### PROACTIVE COMMAND: SEND USSD 4.8.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 3"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

## Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.8.1

Logically:

Command details

Command number:

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	СВ	69	7B	99	0C
	32	СВ	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.9.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 4.9.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Alpha identifier is displayed with strikethrough on]
5	$ME \rightarrow USS$	REGISTER 4.1	
6	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
_		RETURN RESULT) 4.1	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
0	LUCC ME	USSD 4.9.1 PROACTIVE COMMAND	
8	$UICC \to ME$	PENDING: SEND USSD 4.9.2	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND: SEND	
		USSD 4.9.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Alpha identifier is displayed with strikethrough
40	ME UOO	DECICTED 4.4	off]
12 13	ME → USS	REGISTER 4.1 RELEASE COMPLETE (SS	["LICCD string received from CC"]
13	$USS \to ME$	RETURN RESULT) 4.1	["USSD string received from SS"]
14	ME → UICC	TERMINAL RESPONSE: SEND	
	WIE 7 0100	USSD 4.9.1	
15	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.9.1	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: SEND	
18	ME LICED	USSD 4.9.1 Display "Text Attribute 1"	[Alpha identifier is displayed with strikethrough
10	$ME \rightarrow USER$	Display Text Attribute 1	on]
19	$ME \rightarrow USS$	REGISTER 4.1	511
20	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 4.1	
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
00		USSD 4.9.1	
22	$UICC \to ME$	PROACTIVE COMMAND	
23	ME → UICC	PENDING: SEND USSD 4.9.3 FETCH	
24	$VICC \rightarrow ME$	PROACTIVE COMMAND: SEND	
	JIOO → IVIE	USSD 4.9.3	
25	$ME \rightarrow USER$	Display "Text Attribute 3"	[Alpha identifier is displayed with strikethrough
			off]
26	$ME \rightarrow USS$	REGISTER 4.1	
27	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
20	ME . LUCC	RETURN RESULT) 4.1	
28	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 4.9.1	
	1	UUUU 4.5. I	

# PROACTIVE COMMAND: SEND USSD 4.9.1

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough On

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	80	B4		

## PROACTIVE COMMAND: SEND USSD 4.9.2

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
_	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		

### PROACTIVE COMMAND: SEND USSD 4.9.3

Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 3"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

## Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	33	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	B3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60								

TERMINAL RESPONSE: SEND USSD 4.9.1

Logically:

Command details

Command number:

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	СВ	69	7B	99	0C
	32	СВ	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.10.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.10.1	
4	$ME \rightarrow USER$	Display "Text Attribute 1"	[Message shall be formatted with foreground
			and background colour according to text
5	$ME \to USS$	REGISTER 4.1	attribute configuration]
6			["LICCD string resolved from CC"]
0	$USS \to ME$	RELEASE COMPLETE (SS RETURN RESULT) 4.1	["USSD string received from SS"]
7	ME VIICC	TERMINAL RESPONSE: SEND	
,	IVIL -> OICC	USSD 4.10.1	
8	UICC → ME	PROACTIVE COMMAND	
		PENDING: SEND USSD 4.10.2	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		USSD 4.10.2	
11	$ME \rightarrow USER$	Display "Text Attribute 2"	[Message shall be formatted with ME's default
			foreground and background colour]
12	$ME \rightarrow USS$	REGISTER 4.1	
13	$USS \to ME$	RELEASE COMPLETE (SS	["USSD string received from SS"]
		RETURN RESULT) 4.1	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	
		USSD 4.10.1	

## PROACTIVE COMMAND: SEND USSD 4.10.1

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 1"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

Text Attribute

Formatting position: 0 Formatting length: 16

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

BER-TLV:	D0	5C	81	03	01	12	00	82	02	81	83	85
·	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	31	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	DB	EE	37	3C	2E	9F
	D3	EB	F6	3B	3E	AF	6F	C5	64	33	5A	CD
	76	C3	E5	60	D0	04	00	10	00	B4		_

## PROACTIVE COMMAND: SEND USSD 4.10.2

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Text Attribute 2"

**USSD String** 

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

USSD string: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

## Coding:

BER-TLV:	D0	56	81	03	01	12	00	82	02	81	83	85
	10	54	65	78	74	20	41	74	74	72	69	62
	75	74	65	20	32	8A	39	F0	41	E1	90	58
	34	1E	91	49	E5	92	D9	74	3E	A1	51	E9
	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93	CB
	E6	33	3A	AD	5E	В3	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

475

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	СВ	69	7B	99	0C
	32	СВ	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		USSD 5.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 5.1.1	
4	$ME \rightarrow USER$	Display "你好"	["Hello" in Chinese]
5	$ME \to USS$	REGISTER 5.1	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN	[Successful]
		RESULT) 5.1	-
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND USSD 5.1.1	[Command performed successfully]

### PROACTIVE COMMAND: SEND USSD 5.1.1

# Logically:

Command details

Command number: 1

Command type: SEND USSD

Command qualifier: "00"

Device identities

Source device: UICC
Destination device: Network

Alpha Identifier

Data coding scheme: UCS2 (16bit)
Text: "你好"

**USSD String** 

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

USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

## Coding:

BER-TLV:	D0	4B	81	03	01	12	00	82	02	81	83	85
	05	80	4F	60	59	7D	8A	39	F0	41	E1	90
	58	34	1E	91	49	E5	92	D9	74	3E	A1	51
	E9	94	5A	B5	5E	B1	59	6D	2B	2C	1E	93
	CB	E6	33	3A	AD	5E	В3	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-Data Coding Scheme:

- 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	В3	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	80	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		USSD 6.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND USSD 6.1.1	
4	$ME \rightarrow USER$	Display "ル"	[Character " in Katakana]
5	$ME \to USS$	REGISTER 6.1	
6	$USS \to ME$	RELEASE COMPLETE (SS RETURN	[Successful]
		RESULT) 6.1	
7	$ME \rightarrow UICC$	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: "/\mathcal{V}"

**USSD String** 

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

USSD String: "ABCDEFGHIJKLMNOPQRSTUVWXYZ-abcdefghijklmnopqrstuvwxyz-

1234567890"

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	В3	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	В3	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	СВ	69	7B	99
	0C	32	CB	DF	6D	D0	74	0A				

TERMINAL RESPONSE: SEND USSD 6.1.1

Logically:

Command details

Command number:

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"

BER-TLV:	81	03	01	12	00	82	02	82	81	83	01
-	00	8D	1A	00	D5	E9	94	80	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

B01 Byte: 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET	
		UP CALL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL	
		1.1.1	
4	$ME \rightarrow USER$	ME displays "Not busy" during user	
		confirmation phase.	
5	$USER \to ME$	The user confirms the call set up	[user confirmation]
6	$ME \to USS$	The ME attempts to set up a call to	
		"+012340123456"	
7	$USS \to ME$	The ME receives the CONNECT message	[The USS also has to handle the
		from the USS.	START DTMF and STOP DTMF
			messages sent by the ME in an
		TERMINAL RESPONSE 4.4.4	appropriate way]
8	, 0.00	TERMINAL RESPONSE 1.1.1	[Command performed successfully]
9	$USER \to ME$	The user ends the call after 10 s.	
		The ME returns to idle mode.	
10	ME → UICC	The ME shall not have updated EF OCI or	
		EF OCT with the call set-up details.	

# PROACTIVE COMMAND: SET UP CALL 1.1.1

# Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "Not busy"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

# Coding:

BER-TLV:	D0	1E	81	03	01	10	00	82	02	81	83	85
_	08	4E	6F	74	20	62	75	73	79	86	09	91
	10	32	04	21	43	65	1C	2C				

## TERMINAL RESPONSE: SET UP CALL 1.1.1

# Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
		CALL 1.1.1	
4	$ME \rightarrow USER$	ME displays "Not busy" during the	
		user confirmation phase	
5	$USER \to ME$	The user rejects the set up call	[user rejects the call]
6	$ME \to UICC$	TERMINAL RESPONSE 1.2.1	[User did not accept call set-up request]
7	$ME \to USER$	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:

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET	
		UP CALL 1.4.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL 1.4.1	[putting all other calls on hold]
4	$ME \to USER$	ME displays "On hold" during the user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirms the call]
6	$ME \to USS$	The active call is put on hold	
7	ME→USS	The ME attempts to set up a call to "+012340123456"	
8	$USS \to ME$	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	$ME \to UICC$	TERMINAL RESPONSE 1.4.1	[Command performed successfully]
10	$USER \to ME$	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:

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:

DER-ILV.   01   U3   U1   IU   U2   02   U2   02   01   03   U1   U0
--

# 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET	
		UP CALL 1.5.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL	[disconnecting all other calls]
		1.5.1	
4	$ME \rightarrow USER$	ME displays "Disconnect" during the user	
		confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirms the call]
6	$ME \rightarrow USS$	The ME disconnects the active call	
7	ME→USS	The ME attempts to set up a call to	
		"+012340123456"	
8	$USS \to ME$	The ME receives the CONNECT message	[The USS also has to handle the
		from the USS.	START DTMF and STOP DTMF
			messages sent by the ME in an
			appropriate way]
9	$ME \rightarrow UICC$	TERMINAL RESPONSE 1.5.1	[Command performed successfully]
10	$USER \rightarrow ME$	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:

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
	•		• .	. •	<b>.</b>				<b>.</b>		<b>.</b>	

# 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[only if not currently busy on another call]
		CALL 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE 1.6.1	[ME currently unable to process command]

TERMINAL RESPONSE: SET UP CALL 1.6.1

Logically:

Command details

Command number:

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 1.4.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[putting all other calls on hold]
		CALL 1.4.1	
4	$ME \rightarrow USER$	ME displays "On hold" during the	
		user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirms the call]
6	$ME \to USS$	The ME attempts to put the active	
		call on hold.	
7	USS->ME	The ME receives the HOLD	[USS sends "Facility Rejected" as cause value]
		REJECT message from the USS.	
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 1.7.1A	[Network currently unable to process command]
		OR	
		TERMINAL RESPONSE 1.7.1B	[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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 1.8.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[Capability configuration parameters: full rate
		CALL 1.8.1	support]
4	$ME \to USER$	ME displays "Capability config"	
		during the user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	$ME \to USS$	The ME attempts to set up a call to	
		"+012340123456" using the	
		capability configuration parameters	
_		supplied by UICC	
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent by
	ME 11100	TERMINAL RECOONCE 4.0.4	the ME in an appropriate way]
8	ME → UICC	TERMINAL RESPONSE 1.8.1	[Command performed successfully]
9	LICED ME	The user ends the cell ofter 10 c	
9	USEK → ME	The user ends the call after 10 s The ME returns in idle mode.	
		THE ME TELUITIS III IUIE IIIOUE.	

# PROACTIVE COMMAND: SET UP CALL 1.8.1

## Logically:

Command details

Command number:

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 1.9.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND SET UP	[dialling number string, no alpha identifier]
		CALL 1.9.1	
4	$USER \to ME$	The user confirms the set up call	[user confirmation]
5	$ME { ightarrow} USS$	The ME attempts to set up a call to	
		"+01234567890123456789012345	
		678901"	
6	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE 1.9.1	[Command performed successfully]
8	$USER \to ME$	The user ends the call	
1		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:

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	12   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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP	
		CALL 1.10.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL	[ alpha identifier]
		1.10.1	
4	$ME \to USER$	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	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	$ME{ o}USS$	The ME attempts to set up a call to "+01"	
7	$USS \to ME$	The ME receives the CONNECT message from	
		the USS.	
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 1.10.1	[Command performed successfully]
9	$USER \to ME$	The user ends the call	
		The ME returns in idle mode.	

## PROACTIVE COMMAND: SET UP CALL 1.10.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call with redial

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Three types are defined: - set up a call, but only if not currently busy on another

call; - set up a call, putting all other calls (if any) on hold; - set up a call, disconnecting all other calls (if any) first. For each of these types, "

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string: "01"

### Coding:

BER-TLV:	D0	81	FD	81	03	01	10	01	82	02	81	83
•	85	81	ED	54	68	72	65	65	20	74	79	70
	65	73	20	61	72	65	20	64	65	66	69	6E
	65	64	3A	20	2D	20	73	65	74	20	75	70
	20	61	20	63	61	6C	6C	2C	20	62	75	74
	20	6F	6E	6C	79	20	69	66	20	6E	6F	74
	20	63	75	72	72	65	6E	74	6C	79	20	62
	75	73	79	20	6F	6E	20	61	6E	6F	74	68
	65	72	20	63	61	6C	6C	3B	20	2D	20	73
	65	74	20	75	70	20	61	20	63	61	6C	6C
	2C	20	70	75	74	74	69	6E	67	20	61	6C
	6C	20	6F	74	68	65	72	20	63	61	6C	6C
	73	20	28	69	66	20	61	6E	79	29	20	6F
	6E	20	68	6F	6C	64	3B	20	2D	20	73	65
	74	20	75	70	20	61	20	63	61	6C	6C	2C
	20	64	69	73	6 <sup>3</sup>	6 <sup>F</sup>	6E	6E	65	63	74	69
	6E	67	20	61	6C	6C	20	6F	74	68	65	72
	20	63	61	6C	6C	73	20	28	69	66	20	<sup>6</sup> 1
	6E	79	29	20	66	69	72	<b>7</b> <sup>3</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

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

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 1.11.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[set up a call with called party subaddress]
		CALL 1.11.1	
4	$ME \rightarrow USER$	ME displays "Called party" during	
		the user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	$ME { ightarrow} USS$	The ME attempts to set up a call to	
		"+012340123456" with the called	
		party subaddress information	
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent by
			the ME in an appropriate way]
8	, 0.00		[Command performed successfully]
9	$USER \to ME$	The user ends the call after 10 s	
		The ME returns in idle mode.	

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 1.11.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[set up a call with called party subaddress]
		CALL 1.11.1	
4	$ME \rightarrow UICC$	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:

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 1.12.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[only if not currently busy on another call with
		CALL 1.12.1	redial]
4	$ME \rightarrow USER$	ME displays "Duration" during the	
		user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirms the call]
6	$ME \to USS$	ME attempts to set up a call to	[redial mechanism with maximum duration of
		"+012340123456" . It stops its	10 seconds]]
		attempts after 10 seconds.	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE 1.12.1	[network currently unable to process
			command]
8	$ME \rightarrow USER$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 2.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
		CALL 2.1.1	
4	$ME \rightarrow USER$	ME displays "CONFIRMATION" during	
		the user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	$ME \rightarrow USS$	The ME attempts to set up a call to	[second alpha identifier]
		"+012340123456".	
		The ME displays "CALL"	
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 2.1.1	[Command performed successfully]
		The ME shall not update EF LND with	
		the called party address.	
9	$USER \to ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	

### PROACTIVE COMMAND: SET UP CALL 2.1.1

## Logically:

Command details

Command number:

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 selfexplanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 3.1.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL 3.1.1	Including icon identifier, icon shall be displayed in addition of the first alpha identifier
4	$ME \rightarrow USER$	ME displays "Set up call Icon 3.1.1" and the basic icon during a user confirmation phase.	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456"	
7	$USS \to ME$	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	$ME \to UICC$	TERMINAL RESPONSE 3.1.1A	[Command performed successfully]
9	$USER \to ME$	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:

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 selfexplanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 3.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	Including icon identifier, icon shall be
		CALL 3.1.1	displayed in addition of the first alpha identifier
4	$ME \to USER$	ME displays "Set up call Icon 3.1.1" without the basic icon during a user confirmation phase.	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to "+012340123456"	
7	$USS \to ME$	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	$ME \to UICC$	TERMINAL RESPONSE 3.1.1B	[Command performed successfully, but requested icon could not be displayed].
9	$USER \to ME$	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

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 3.2.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	Including icon identifier, icon shall be
		CALL 3.2.1	displayed instead of the first alpha identifier
4	$ME \to USER$	ME displays the basic icon during	
		a user confirmation phase.	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	$ME \to USS$	The ME attempts to set up a call to	
		"+012340123456"	
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent by
			the ME in an appropriate way]
8	$ME \to UICC$	TERMINAL RESPONSE 3.2.1A	[Command performed successfully]
9	$USER \to ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	

#### PROACTIVE COMMAND: SET UP CALL 3.2.1

# Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "Set up call Icon 3.2.1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Icon identifier

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

# Coding:

BER-TLV:	D0	30	81	03	01	10	00	82	02	81	83	85
	16	53	65	74	20	75	70	20	63	61	6C	6C
	20	49	6 <sup>3</sup>	6F	6E	20	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, selfexplanatory, requested icon could not be displayed)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 3.2.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	Including icon identifier, icon shall be
		CALL 3.2.1	displayed instead of the first alpha identifier
4	$ME \to USER$	ME display "Set up call Icon 3.2.1"	
		without the icon	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	ME→USS	The ME attempts to set up a call to	
_		"+012340123456"	
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent by
		TERMINAL RECOGNICE COAR	the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 3.2.1B	[Command performed successfully, but
		The second of the sell of the 40 c	requested icon could not be displayed].
9	$USER \rightarrow ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.2.1B

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME Destination device: UICC

Result

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

DED TILL	~ 4	00	- 4	4.0		0.0	02	02			- 4	- 4
BER-TLV:	l 81	I 03	l 01	10	00	l 82	1 02	l 82	l 81	83	l 01	I 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 3.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	Including icon identifier, icon shall be displayed in
		CALL 3.3.1	addition of the first alpha identifier
4	$ME \rightarrow USER$	ME displays "Set up call Icon	
		3.3.1" and the colour icon during a	
		user confirmation phase.	
5	$USER \to ME$		[user confirmation]
6	$ME { ightarrow} USS$	The ME attempts to set up a call to	
		"+012340123456"	
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START DTMF
		message from the USS.	and STOP DTMF messages sent by the ME in an
			appropriate way]
8	, 0.00	TERMINAL RESPONSE 3.3.1A	[Command performed successfully]
9	$USER \to ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	

#### PROACTIVE COMMAND: SET UP CALL 3.3.1

# Logically:

Command details

Command number:

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:

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
DEIX IEV.	0.	00	0.	, , ,	00	02	02	02	0.	00	0 1	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 3.3.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	Including icon identifier, icon shall be
		CALL 3.3.1	displayed in addition of the first alpha identifier
4	$ME \to USER$	ME only display alpha string: " Set up call Icon 3.3.1"	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	$ME \to USS$	The ME attempts to set up a call to "+012340123456"	
7	$USS \to ME$	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	$ME \to UICC$	TERMINAL RESPONSE 3.3.1B	[Command performed successfully, but requested icon could not be displayed].
9	$USER \to ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	

TERMINAL RESPONSE: SET UP CALL 3.3.1B

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME
Destination device: UICC

Result

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

BER-TLV:   81	1 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 3.4.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	Including a second alpha identifier and two
		CALL 3.4.1	icons
4	$ME \rightarrow USER$	ME displays the basic icon during	
		a user confirmation phase.	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	$ME { ightarrow} USS$	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	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent by
		TERMINIAL RECOGNICE O 4.44	the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 3.4.1A	[Command performed successfully]
9	$USER \to ME$	The user ends the call after 10 s.	
9	USEK → ME	The ME returns in idle mode.	
		THE ME TELUTIS III IGIE MOGE.	

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP CALL 3.4.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	Including a second alpha identifier and two
		CALL 3.4.1	icons
4	$ME \to USER$	ME displays "Set up call Icon	
		3.4.1" without the icon	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	$ME \to USS$	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	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent by
		TERMINIAL RESPONSES A 4R	the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 3.4.1B	[Command performed successfully, but
	LIGED A	The second of the cell of the 40	requested icon could not be displayed].
9	$USER \to ME$	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

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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 4.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
_		CALL 4.1.1	
4	$ME \rightarrow USER$	ME displays "CONFIRMATION 1"	
5	USER → ME	during the user confirmation phase The user confirms the set up call	[user confirmation is displayed with left
3	USER → IVIE	The user committis the set up can	alignment]
6	$ME \rightarrow USS$	The ME attempts to set up a call to	[second alpha identifier is displayed with
	WIL 7000	"+012340123456".	left alignment]
		The ME displays "CALL 1"	
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.1.1	[Command performed successfully]
		The ME shall not update EF LND with	
	LICED ME	the called party address. The user ends the call after 10 s.	
9	$USER \to ME$	The ME returns in idle mode.	
10	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
10	OICC - IVIL	SET UP CALL 4.1.2	
11	ME → UICC	FETCH	
12	UICC → ME	PROACTIVE COMMAND: SET UP	
	0.00 /	CALL 4.1.2	
13	$ME \rightarrow USER$	ME displays "CONFIRMATION 2"	
		during the user confirmation phase	
14	$USER \to ME$	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
15	ME → □USS	The ME attempts to set up a call to	change will take place] [Second alpha identifier shall be
13		"+012340123456".	formatted without left alignment.
		The ME displays "CALL 2"	Remark: If left alignment is the ME's
		THO WE dioplays Office 2	default alignment as declared in table
			A.2/14, no alignment change will take
			place]
16	$USS \to ME$	The ME receives the CONNECT	The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.1.1	[Command performed successfully]
		The ME shall not update EF LND with	
10	LICED ME	the called party address. The user ends the call after 18 s.	
18	$USER \to ME$	The ME returns in idle mode.	
		THE ME TELUTIS III IUIE IIIOUE.	

# 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.

# 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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 4.2.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
4	$ME \to USER$	CALL 4.2.1 ME displays "CONFIRMATION 1"	
4	IVIE → USER	during the user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with
	OOLIK 7 WIL	The doc documents and doc up dan	center alignment]
6	$ME \to USS$	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456".	center alignment]
		The ME displays "CALL 1"	
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
8	ME IIIOO	TERMINAL RESPONSE 4.2.1	by the ME in an appropriate way] [Command performed successfully]
0	$ME \rightarrow UICC$	The ME shall not update EF LND with	[Command performed successfully]
		the called party address.	
9	$USER \to ME$	The user ends the call after 10 s.	
	002.1	The ME returns in idle mode.	
10	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 4.2.2	
11	$ME \to UICC$	FETCH	
12	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
40		CALL 4.2.2	
13	$ME \rightarrow USER$	ME displays "CONFIRMATION 2" during the user confirmation phase	
14	$USER \to ME$	The user confirms the set up call	[User confirmation shall be formatted
14	USER → IVIE	The user committis the set up can	without center alignment. Remark: If
			center alignment is the ME's default
			alignment as declared in table A.2/14, no
			alignment change will take place]
15	$ME \to \square USS$	The ME attempts to set up a call to	[Second alpha identifier shall be
		"+012340123456".	formatted without centert alignment.
		The ME displays "CALL 2"	Remark: If center alignment is the ME's
			default alignment as declared in table
			A.2/14, no alignment change will take
16	$USS \to ME$	The ME receives the CONNECT	place] [The USS also has to handle the START
10		message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
17	$ME \to UICC$	TERMINAL RESPONSE 4.2.1	[Command performed successfully]
		The ME shall not update EF LND with	
		the called party address.	
18	$USER \to ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	

# PROACTIVE COMMAND: SET UP CALL 4.2.1

# Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0 Formatting length: 14

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0 Formatting length: 6

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

#### Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	<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.

# 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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 4.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
_		CALL 4.3.1	
4	$ME \rightarrow USER$	ME displays "CONFIRMATION 1"	
5	$USER \to ME$	during the user confirmation phase The user confirms the set up call	[user confirmation is displayed with right
3	USER → IVIE	The user committis the set up can	alignment]
6	$ME \to USS$	The ME attempts to set up a call to	[second alpha identifier is displayed with
	IVIL 7000	"+012340123456".	right alignment]
		The ME displays "CALL 1"	
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
_			by the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.3.1	[Command performed successfully]
		The ME shall not update EF LND with	
9	LICED ME	the called party address. The user ends the call after 10 s.	
9	$USER \to ME$	The ME returns in idle mode.	
10	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
10	OIOO / IVIL	SET UP CALL 4.3.2	
11	$ME \rightarrow UICC$	FETCH	
12	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
		CALL 4.3.2	
13	$ME \to USER$	ME displays "CONFIRMATION 2"	
		during the user confirmation phase	
14	$USER \to ME$	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	[Second alpha identifier shall be
13		"+012340123456".	formatted without right alignment.
		The ME displays "CALL 2"	Remark: If right alignment is the ME's
			default alignment as declared in table
			A.2/14, no alignment change will take
			place]
16	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
47	ME !!!	TERMINIAL DECRONOS 4 0 4	by the ME in an appropriate way]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.3.1 The ME shall not update EF LND with	[Command performed successfully]
		the called party address.	
18	$USER \to ME$	The user ends the call after 10 s.	
'0		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.

27.22.4.13.4.4.4.2 Procedure

Expected Sequence 4.4 (SET UP CALL, Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING:	
_		SET UP CALL 4.4.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
4	$ME \to USER$	ME displays "CONFIRMATION 1"	
7	IVIL -> UOLK	during the user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with large
			font size]
6	$ME \to USS$	The ME attempts to set up a call to	[second alpha identifier is displayed with large font size]
		"+012340123456". The ME displays "CALL 1"	large font size]
7	$USS \to ME$	The ME receives the CONNECT	The USS also has to handle the START
	7	message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.4.1	[Command performed successfully]
		The ME shall not update EF LND with the called party address.	
9	$USER \to ME$	The user ends the call after 10 s.	
	OOLIK 7 MIL	The ME returns in idle mode.	
10	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 4.4.2	
11	ME → UICC	PROACTIVE COMMAND: SET UP	
12	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL 4.4.2	
13	$ME \rightarrow USER$	ME displays "CONFIRMATION 2"	
	, , , , , , , , , , , , , , , , , , , ,	during the user confirmation phase	
14	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with
45		The NAT attended to act on a call to	normal font size]
15	$ME \rightarrow \square USS$	The ME attempts to set up a call to "+012340123456".	[second alpha identifier is displayed with normal font size]
		The ME displays "CALL 2"	nomanont sizej
16	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
47		TERMINAL RESPONSE 4.4.4	by the ME in an appropriate way]
17	$ME \to UICC$	TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with	[Command performed successfully]
		the called party address.	
18	$USER \to ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	
19	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
20	$ME \to UICC$	SET UP CALL 4.4.1  FETCH	
21	$VICC \rightarrow ME$	PROACTIVE COMMAND: SET UP	
	3.00 / WL	CALL 4.4.1	
22	$ME \to USER$	ME displays "CONFIRMATION 1"	
00		during the user confirmation phase	Francis confirms of the standard to the standa
23	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with large font size]
24	ME □□USS	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456".	large font size]
		The ME displays "CALL 1"	
25	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent by the ME in an appropriate way]
26	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.4.1	[Command performed successfully]
	, , , , , ,	The ME shall not update EF LND with	
		the called party address.	
27	$USER \to ME$	The user ends the call after 10 s.	
28	$UICC \to ME$	The ME returns in idle mode. PROACTIVE COMMAND PENDING:	
20		SET UP CALL 4.4.3	
29	$ME \to UICC$	FETCH	
30	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
		CALL 4.4.3	
31	$ME \rightarrow USER$	ME displays "CONFIRMATION 3" during the user confirmation phase	
I	I	lannia me aser communation buase	1

32	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with normal font size]
33	$ME \rightarrow \square USS$	The ME attempts to set up a call to "+012340123456".	[second alpha identifier is displayed with normal font size]
34	$USS \to ME$	The ME displays "CALL 3" The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent
35	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.4.1 The ME shall not update EF LND with	by the ME in an appropriate way] [Command performed successfully]
36	$USER \to ME$	the called party address. The user ends the call after 10 s. The ME returns in idle mode.	

#### PROACTIVE COMMAND: SET UP CALL 4.4.1

# Logically:

Command details

Command number:

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:

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:

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
DEIX IEV.	0.	00	0 1		00	02	02	02	0.	00	0.1	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.

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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
2	ME LUCC	SET UP CALL 4.5.1 FETCH	
3	$ME \rightarrow UICC$ $UICC \rightarrow ME$	PROACTIVE COMMAND: SET UP	
		CALL 4.5.1	
4	$ME \rightarrow USER$	ME displays "CONFIRMATION 1"	
_	LIGED ME	during the user confirmation phase The user confirms the set up call	fugor confirmation is displayed with
5	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with small font size]
6	$ME \to USS$	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456".	small font size]
7	LICC - ME	The ME displays "CALL 1" The ME receives the CONNECT	The LISS also has to handle the START
/	$USS \to ME$	message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent
		linessage nem and see.	by the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.5.1	[Command performed successfully]
		The ME shall not update EF LND with	
9	$USER \to ME$	the called party address. The user ends the call after 10 s.	
	OOLIK 7 WIL	The ME returns in idle mode.	
10	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
11	ME → UICC	SET UP CALL 4.5.2 FETCH	
12	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
'-	O.CO / IVIL	CALL 4.5.2	
13	$ME \rightarrow USER$	ME displays "CONFIRMATION 2"	
14	LICED ME	during the user confirmation phase The user confirms the set up call	lucar confirmation is displayed with
14	$USER \to ME$	The user committees the set up can	[user confirmation is displayed with normal font size]
15	ME → □USS	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456".	normal font size]
16	LICC ME	The ME displays "CALL 2" The ME receives the CONNECT	The USS also has to handle the START
10	$USS \to ME$	message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.5.1	[Command performed successfully]
		The ME shall not update EF LND with the called party address.	
18	$USER \to ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP CALL 4.5.1	
20	$ME \rightarrow UICC$	FETCH	
21	UICC → ME	PROACTIVE COMMAND: SET UP	
		CALL 4.5.1	
22	$ME \rightarrow USER$	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with small
		·	font size]
24	ME □□USS	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456". The ME displays "CALL 1"	small font size]
25	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
26	ME LUCC	TERMINAL RESPONSE 4.5.1	by the ME in an appropriate way]
20	$ME \rightarrow UICC$	The ME shall not update EF LND with	[Command performed successfully]
		the called party address.	
27	$USER \to ME$	The user ends the call after 10 s.	
28	LIICC ME	The ME returns in idle mode. PROACTIVE COMMAND PENDING:	
20	$UICC \to ME$	SET UP CALL 4.5.3	
29	$ME \to UICC$	FETCH	
30	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
31	$ME \rightarrow USER$	CALL 4.5.3 ME displays "CONFIRMATION 3"	
31	IVIE -> USER	during the user confirmation phase	
į	1	, J	ı

32	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with normal font size]
33	$ME \rightarrow \square USS$	The ME attempts to set up a call to "+012340123456".	[second alpha identifier is displayed with normal font size]
34	$USS \to ME$	The ME displays "CALL 3" The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent
35	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.5.1 The ME shall not update EF LND with	by the ME in an appropriate way] [Command performed successfully]
36	$USER \to ME$	the called party address. The user ends the call after 10 s. The ME returns in idle mode.	

#### PROACTIVE COMMAND: SET UP CALL 4.5.1

## Logically:

Command details

Command number:

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:

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.

27.22.4.13.4.6.4.2 Procedure

Expected Sequence 4.6 (SET UP CALL, Text Attribute – Bold On)

1 UICC → ME PROACTIVE COMMAND PENDING: 2 ME → UICC → ME PROACTIVE COMMAND: SET UP CALL 4.6.1 3 UICC → ME Glaplays "CONFIRMATION 1" during the user confirmation phase the user confirms the set up call to '+0*12340123456".  The ME attempts to set up a call to '+0*12340123456". The ME displays "CALL 1" The ME attempts to set up a call to '+0*12340123456". The ME displays "CALL 1" The ME receives the CONNECT message from the USS.  8 ME → UICC TERMINAL RESPONSE 4.6.1 The ME freature in idle mode. PROACTIVE COMMAND: SET UP CALL 4.6.2 THE ME HOSE of CALL 2" THE ME displays "CALL 1" The ME attempts to set up a call to '+0*12440123465". The ME displays "CALL 1" The ME attempts to set up a call to '+0*12440123465". The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The M	Step	Direction	MESSAGE / Action	Comments
2 ME → UICC 3 USER → ME 4 ME → USER 4 ME → USER 5 USER → ME 5 USER → ME 6 ME → USS 6 ME → UICS 7 The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" 7 USS → ME 8 ME → UICC 7 TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. 9 USER → ME 10 UICC → ME 11 ME → UICC 12 UICC → ME 13 ME → UICS 14 ME → UICS 15 ME → UICS 16 ME → UICS 17 ME HE attempts to set up a call to "+012340123456". The ME shall not update EF LND with the called party address. 9 USER → ME 16 UICC → ME 17 ME → UICC 18 ME → UICS 19 ME → UICS 10 ME → UICS 11 ME → UICS 11 ME → UICS 12 USER → ME 14 USER → ME 15 ME → UICS 16 USS → ME 16 ME → UICS 17 The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" The ME receives the CONNECT message from the USS. 16 USER → ME 17 ME → UICC 18 ME → UICS 18 ME → UICS 19 UICC → ME 19 UICC → ME 10 UICC → ME 10 UICC → ME 10 UICC → ME 11 ME → UICC 11 ME → UICC 12 UICC → ME 13 ME → UICS 14 ME → UICS 15 ME → UICS 16 USS → ME 17 ME HE attempts to set up a call to "+012340123456". The ME displays "CALL 2" The ME receives the CONNECT message from the USS. 10 UICC → ME 10 UICC			PROACTIVE COMMAND PENDING:	
Second alpha identifier is displayed with bold on the called party address.	2	ME		
ME → USER  ME → USER  ME → USE  The ME displays "CONFIRMATION 1" during the user confirmation phase The user confirms the set up call  ME → USS  The ME attempts to set up a call to "-012340123456". The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC → ME  SET UP CALL 4.6.2  TERMINAL RESPONSE 4.6.1  The ME receives the colomator of the called party address.  ME → UICC → ME  M				
ME → USER   ME displays "CONFIRMATION 1"   USER → ME	3			
Second alpha identifier is displayed with bold on the continuation in the set up call to "1012340123456".   The ME displays "CALL 1"	4	$ME \rightarrow USER$		
The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME displays "CALL 1" The ME receives the CONNECT message from the USS.  ME → UICC TERMINAL RESPONSE 4.6.1 The user ends the call after 10 s. The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.2 The ME attempts to set up a call to "+012340123456". The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC → ME TORACTIVE COMMAND: SET UP CALL 4.6.2 The ME attempts to set up a call to "+01240123456". The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC  ME → UICC TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.2 The ME receives the CONNECT message from the USS.  ME → UICC  M	_	11055		Fugar confirmation is displayed with 1. 1.1.
The ME attempts to set up a call to '1023d0123d56'. The ME displays 'CALL 1''   The ME receives the CONNECT message from the USS.	5	USER → ME	The user confirms the set up call	
"+012340123456", The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME displays "CALL 1" The ME shall not update EF LND with the called party address.   USER → ME	6	$ME \to USS$	The ME attempts to set up a call to	
The ME receives the CONNECT message from the USS.  ME → UICC TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.  UICC → ME THE user ends the call after 10 s. The ME returns in idle mode.  UICC → ME PROACTIVE COMMAND PENDING: SET UP CALL 4.6.2  ME → UICC → ME USS → ME The ME attempts to set up a call to "+012340123456". The ME receives the CONNECT message from the USS.  ME → UICC → ME UICS → ME UICS → ME UICS → ME UICS → ME UICS → ME UICS → ME UICS → ME UICS → ME UICS → ME UICS → ME WICC → ME UICS → ME UICS → ME WICC → ME UICS → ME WICC → ME WIC				
message from the USS.    ME → UICC   TERMINAL RESPONSE 4.6.1   The ME shall not update EF LND with the called party address.   The user ends the call after 10 s. The ME returns in idle mode.   PROACTIVE COMMAND PENDING: SET UP CALL 4.6.2   The ME returns to the call to the called party address.   The ME of the called party address.   The ME receives the CONNECT message from the USS.   The ME of the called party address.   The ME of the called party address.   The ME receives the colnect party address.   The ME of the called party address.   The ME of the called party address.   The ME of the called party address.   The ME of the called party address.   The ME of the called party address.   The ME of the called party address.   The ME of the called party address.   The ME of the called party address.   The ME of the called party address.   The ME of the called party address.   The ME of the called party address.   The ME of the called party address.   The ME of the ca	7	LICC ME		IThe LISS also has to handle the START
ME → UICC	′	USS → ME		<b>-</b>
The ME shall not update EF LND with the called party address.  The user ends the call after 10 s. The ME displays "CONFIRMATION 2" during the user confirmation phase the Called party address.  The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME attempts to set up a call to "+0.12340123456". The ME attempts to set up a call to "+0.12340123456". The ME attempts to set up a call to "+0.12340123456". The ME receives the CONNECT message from the USS.  TERMINAL RESPONSE 4.6.1 The ME receives the call after 10 s. The ME receives the call after 10 s. The ME receives the call after 20 s. The UICC → ME PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1  The ME attempts to set up a call to "+0.12340123456" The ME shall not update EF LND with the called party address.  The user ends the call after 10 s. The ME receives the CONNECT message from the USS.  The USC → ME PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1  The ME attempts to set up a call to "+0.12340123456" The ME displays "CONFIRMATION 1" during the user confirmation phase the user confirms the set up call to "+0.12340123456" The ME displays "CONFIRMATION 1" during the user confirms the set up call to "+0.12340123456" The ME displays "CONFIRMATION 1" during the user confirmation phase the call after 10 s. The ME displays "CONFIRMATION 1" during the user confirms the set up call to "+0.12340123456" The ME displays "CONFIRMATION 1" during the user confirms the set up call to "+0.12340123456" The ME displays "CONFIRMATION 1" during the user confirms the set up call to "+0.12340123456" The ME displays "CONFIRMATION 1" during the user confirms the set up call to "+0.12340123456" The ME displays "CONFIRMATION 1" during the user confirms the set up call to "+0.12340123456" The ME displays "CONFIRMATION 1" during the user confirms the set up call to "+0.12340123456" The ME displays "CONFIRMATION 2" during the user confirms the set up call to "+0.1234012340123456" The ME displays "CONFIRMATION 3" during the user confirms the cal				
the called party address.  The USER → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  USER → ME  USER → ME  USER → ME  USER → ME  USER → ME  USER → ME  USER → ME  UICC → ME  UICC → ME  USER → ME  USER → ME  USER → ME  UICC → ME  U	8	$ME \rightarrow UICC$		[Command performed successfully]
USER → ME				
The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.2  13 ME → UICC UICC → ME UICC → ME PROACTIVE COMMAND: SET UP CALL 4.6.2  13 ME → USER ME displays "CONFIRMATION 2" during the user confirms the set up call to "+012340123456". The ME displays "CALL 2" The ME displays "CALL 2" The ME displays "CALL 2" The ME receives the CONNECT message from the USS.  18 USER → ME  19 UICC → ME PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1 The ME shall not update EF LND with the called party address. The UICC → ME UICC → ME  20 ME → UICC 10 ME → UICS TERMINAL RESPONSE 4.6.1 The ME returns in idle mode. PROACTIVE COMMAND: SET UP CALL 4.6.1 PETCH VALL 4.6.1 The ME attempts to set up a call to "+012340123456". The ME returns in idle mode. PROACTIVE COMMAND: SET UP CALL 4.6.1 The ME attempts to set up a call to "+012340123456". The ME attempts to set up a call to "+012340123456". The ME attempts to set up a call to "+012340123456". The ME attempts to set up a call to "+012340123456". The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME receives the CONNECT message from the USS.  26 ME → UICC  27 USER → ME  UICC → ME  28 UICC → ME PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 The ME HERDING RETURN	9	USER → ME		
SET UP CALL 4.6.2   FETCH   PROACTIVE COMMAND: SET UP CALL 4.6.2   FETCH   PROACTIVE COMMAND: SET UP CALL 4.6.2   ME displays "CONFIRMATION 2" during the user confirmation phase The user confirms the set up call to "+012340123456". The ME attempts to set up a call to "+012340123456". The ME receives the CONNECT message from the USS.				
11 ME → UICC 12 UICC → ME 13 ME → USER 14 USER → ME 15 ME → USES 16 USER → ME 17 ME → UICC 18 ME → UICC 18 ME → UICC 19 ME → UICC 19 ME → UICC 19 ME → UICC 10 ME → UICC 10 ME → UICC 10 ME → UICC 11 ME → UICC 11 ME → UICC 11 ME → UICC 12 ME → UICC 13 ME → UICC 14 ME → UICC 15 ME → UICC 16 ME → UICC 17 TERMINAL RESPONSE 4.6.1 18 USER → ME 19 UICC → ME 19 UICC → ME 20 ME → UICC 21 UICC → ME 21 UICC → ME 22 ME → UICC 23 USER → ME 24 ME □ UICS 25 ME □ UICS 26 ME → UICC 27 UICC → ME 28 UICC 28 ME → UICC 29 ME → UICC 29 ME → UICC 20 ME → UICC 21 UICC → ME 22 ME □ UICS 23 USER → ME 24 ME □ UICS 25 USER → ME 26 ME → UICC 27 UICC → ME 28 UICC 29 ME → UICC 29 ME → UICC 29 ME → UICC 29 ME → UICC 29 ME → UICC 29 ME → UICC 20 ME → UICC 21 UICC → ME 22 ME → UICC 23 USER → ME 24 ME □ UICS 25 USER → ME 26 ME → UICC 27 USER → ME 28 UICC 29 ME → UICC 29 ME → UICC 30 UICC → ME 29 ME → UICC 30 UICC → ME 29 ME → UICC 30 UICC → ME 29 ME → UICC 30 UICC → ME 29 ME → UICC 30 UICC → ME 31 ME → USER 31 ME → USER 31 ME → USER 32 ME → UICC 33 ME → UICC 34 ME → UICC 35 ME → UICC 36 ME → UICC 37 ME → UICC 38 ME → UICC 39 ME → UICC 30 ME → UICC 30 ME → UICC 31 ME → USER 31 ME → USER 31 ME → USER 31 ME → USER 31 ME → USER 31 ME → USER 32 ME → USER 33 ME → USER 34 ME displays "CONFIRMATION 3"	10	$UICC \to ME$		
12 UICC → ME  13 ME → USER  ME displays "CONFIRMATION 2" during the user confirmation phase  The user confirms the set up call  15 ME → USS  16 USS → ME displays "CALL 2"  16 USS → ME ME receives the CONNECT message from the USS.  17 ME → UICC  18 UICC → ME  19 UICC → ME  19 UICC → ME  19 UICC → ME  19 UICC → ME  19 UICC → ME  19 UICC → ME  20 ME → UICC  21 UICC → ME  22 ME → UICC  21 UICC → ME  23 USER → ME  The ME attempts to set up a call to "Hold off]  24 ME □ USS  The Me receives the CONNECT message sent by the ME in an appropriate way]  17 ME → UICC  18 UICC → ME  19 UICC → ME  19 UICC → ME  19 UICC → ME  19 UICC → ME  20 ME → UICC  21 UICC → ME  22 ME → UICC  23 USER → ME  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME displays "CONFIRMATION 1" during the user confirmation phase  The USS → ME  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME receives the CONNECT message from the USS.  26 ME → UICC  TERMINAL RESPONSE 4.6.1  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+012340123456".  The ME attempts to set up a call to "+0124340123456".  The ME attempts to set up a call to "+0124340123456".  The ME attempts to set up a call to "+0124340123456".  The ME attempts to set up a call to "+0124340123456".  The ME attempts to set up a call to "+012434013404.  ITHO ME ATTEMPT TO START TO START TO START TO	11	ME → LUCC		
The ME displays "CONFIRMATION 2" during the user confirmation phase The user confirms the set up call  ME → USS  ME → USS  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC  TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The ME returns in idle mode. PROACTIVE COMMAND: SET UP CALL 4.6.1  ME → UICC  ME → UICC  ME → UICS  ME → UICC  M				
during the user confirmation phase The user confirms the set up call    15			CALL 4.6.2	
14 USER → ME  15 ME → □USS  The ME attempts to set up a call to "+012340123456".  The ME displays "CALL 2" The ME receives the CONNECT message from the USS.  17 ME → UICC  TERMINAL RESPONSE 4.6.1 The ME oblinate of the user confirmation is displayed with bold off]  18 USER → ME  19 UICC → ME 19 UICC → ME 20 ME → UICC 11 ME → UICC 21 UICC → ME 22 ME → UICC 23 USER → ME 24 ME □□USS  The ME attempts to set up a call to "+012340123456". The ME displays "CONFIRMATION 1" during the user confirmation phase The Me displays "CALL 1" The ME receives the CONNECT message from the USS.  18 USER → ME 19 UICC → ME 21 UICC → ME 22 ME → UICC 23 USER → ME 24 ME □□USS The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME receives the CONNECT message from the USS.  26 ME → UICC TERMINAL RESPONSE 4.6.1 The ME receives the CONNECT message from the USS.  27 USER → ME 10 UICC → ME 28 UICC → ME 29 ME → UICC 30 UICC → ME CALL 4.6.3 TERMINAL RESPONSE 4.6.3 The We feurums in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 TERMINAL RESPONSE 4.6.1 The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way] [Command performed successfully]	13	$ME \rightarrow USER$		
The ME attempts to set up a call to "+012340123456". The ME displays "CALL 2" The ME receives the CONNECT message from the USS.  17 ME → UICC  18 USER → ME  18 USER → ME  19 UICC → ME  20 ME → UICC  21 UICC → ME  22 ME → USER  23 USER → ME  24 ME □ USS  The ME attempts to set up a call to "+012340123456". The ME receives the CONNECT message from the USS.  18 USER → ME  19 UICC → ME  20 ME → UICC  21 UICC → ME  22 ME → USER  23 USER → ME  The ware confirmation phase The user confirms the set up call  24 ME □ USS  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"  The ME shall not update EF LND with the called party address.  The user ends the call after 10 s. The ME steeper from the USS.  TERMINAL RESPONSE 4.6.1  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"  The ME attempts to set up a call to "+012340123456". The ME of splayed with bold on] [second alpha identifier is displayed	14	LISER → ME		luser confirmation is displayed with hold
"+012340123456". The ME displays "CALL 2" The ME receives the CONNECT message from the USS.  17 ME → UICC TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1  ME → UICC → ME UICC → ME UICC → ME  WE → USER  ME → USER  ME → USER  ME → USER  ME □ USS  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME displays "CALL 1" The ME esceives the CONNECT message from the USS.  The ME receives the CONNECT message sent by the ME in an appropriate way] [Luser confirmation is displayed with bold on]  [In USS → ME]  In WE → USER  ME □ USS  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME displays "CALL 1" The ME esceives the CONNECT message from the USS.  The ME receives the CONNECT message from the USS.  The ME receives the CONNECT message from the USS.  The ME receives the CONNECT message from the USS.  The ME receives the CONNECT message from the USS.  The ME returns in idle mode. The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME receives the CONNECT message from the USS.  The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 FETCH  AND THE ME statempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME statempts to set up a call to "+012340123456". The ME returns in idle mode. The ME statempts to set up a call to "+012340123456". The ME returns in idle mode. The ME statempts to set up a call to "+012340123456". The ME returns in idle mode. The ME statempts to set up a call to "+012340123456". The ME returns in idle mode. The ME returns i	''	OOLK -> IVIL	The deer definition the set up can	
The ME displays "CALL 2" The ME receives the CONNECT message from the USS.  The ME spall not update EF LND with the called party address.  The UICC → ME  VICC → ME	15	$ME \rightarrow \square USS$		
The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC  ME → UICC  TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1  ME → UICC  ME → UICC  ME → UICC  ME → ME  USER → ME  WE displays "CONFIRMATION 1" during the user confirms the set up call  ME □ USS  ME → UICS  ME □ USS  ME □ USS  ME □ USS  ME □ USS  ME → UICC  ME □ UICS  ME → UICC  ME □ UICS  ME → UICC  ME □ UICS  ME → UICC  ME □ UICC  ME □ UICC  ME □ UICC  ME □ UICC  ME □ UICC  ME □ UICC  ME → UICC → ME  ME → UICC  ME →				bold off]
message from the USS.    ME → UICC   TERMINAL RESPONSE 4.6.1   The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1   FETCH PROACTIVE COMMINAND PENDING: SET UP CALL 4.6.1   FETCH PROACTIVE COMMINAND PENDING: SET UP CALL 4.6.1   FETCH PROACTIVE COMMINAND PENDING: SET UP CALL 4.6.1   The ME attempts to set up call to "+012340123456". The ME displays "CALL 1"   The ME receives the CONNECT message from the USS.   The ME party address. The user ends the call after 10 s. The ME party address. The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The ME returns in idle mode.   The user ends the call after 10 s. The user ends the call after 10 s. The user ends the call after 10 s. The user e	16	$USS \to ME$		The USS also has to handle the START
TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.  USER → ME  UICC → ME  UICC → ME  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1  PROACTIVE COMMAND: SET UP CALL 4.6.1  ME → USER  ME → USER  ME displays "CONFIRMATION 1" during the user confirmation phase  The user confirms the set up call  USER → ME  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"  The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC  ME → UICC  TERMINAL RESPONSE 4.6.1 The ME attempts in idle mode.  The ME attempts to set up a call to "+012340123456". The ME receives the CONNECT message from the USS.  ME → UICC   ME  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  ME → UICC   ME  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  ME → UICC   ME  PROACTIVE COMMAND: SET UP  CALL 4.6.3  ME → USER  ME → USER  ME → USER  ME → UICC  ME → UIC			message from the USS.	DTMF and STOP DTMF messages sent
The ME shall not update EF LND with the called party address.  The user ends the call after 10 s. The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1  PROACTIVE COMMAND: SET UP CALL 4.6.1  ME → USER  ME → USER  USER → ME  USER → ME  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"  The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC  ME → UICC  TERMINAL RESPONSE 4.6.1  The ME shall not update EF LND with the called party address.  The USS → ME  UICC → ME  UICC → ME  WE → UICC  ME → UICC → ME  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  ME → UICC → ME  PROACTIVE COMMAND: SET UP CALL 4.6.3  ME → UICC → ME  PROACTIVE COMMAND: SET UP CALL 4.6.3  ME → UICC → ME  PROACTIVE COMMAND: SET UP CALL 4.6.3  ME → UICC → ME  ME → UICC → ME  PROACTIVE COMMAND: SET UP CALL 4.6.3  ME → UICC → ME  ME → UICC   ME  ME → UICC  ME → UICC → ME  ME → UICC  ME → UICC → ME  ME → UICC	47	ME IIIOO	TERMINIAL DECRONICE 4.C.4	
the called party address.  The user ends the call after 10 s. The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1  PROACTIVE COMMAND: SET UP CALL 4.6.1  ME → UICC  ME → USER  ME → USER  ME displays "CONFIRMATION 1" during the user confirmation phase  The user confirms the set up call  USER → ME  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"  The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC  TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.  The user ends the call after 10 s. The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  ME → UICC	17	ME → UICC		[Command performed successfully]
The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1 FETCH PROACTIVE COMMAND: SET UP CALL 4.6.1 ME displays "CONFIRMATION 1" during the user confirmation phase The user confirms the set up call USER → ME  The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC  TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  ME → UICC  ME → UICC  ME → COMMAND PENDING: SET UP CALL 4.6.3  ME → USER → ME  The ME returns in idle mode. PROACTIVE COMMAND: SET UP CALL 4.6.3  ME → USER → ME  The ME returns in idle mode. PROACTIVE COMMAND: SET UP CALL 4.6.3  ME displays "CONFIRMATION 3"			the called party address.	
19 UICC → ME PROACTIVE COMMAND PENDING: SET UP CALL 4.6.1 FETCH 21 UICC → ME PROACTIVE COMMAND: SET UP CALL 4.6.1 FETCH 22 ME → USER ME displays "CONFIRMATION 1" during the user confirmation phase The user confirms the set up call on "+012340123456". The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME receives the CONNECT message from the USS.  26 ME → UICC TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode. 28 UICC → ME PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 FETCH 30 UICC → ME PROACTIVE COMMAND: SET UP CALL 4.6.3 31 ME → USER ME displays "CONFIRMATION 3"	18	$USER \to ME$		
SET UP CALL 4.6.1  ME → UICC  1 UICC → ME  ME → USER  ME → USER  ME → USER  ME displays "CONFIRMATION 1" during the user confirmation phase  The user confirms the set up call  The ME attempts to set up a call to "+012340123456".  The ME displays "CALL 1"  The ME receives the CONNECT message from the USS.  ME → UICC	19	LUCC \ME		
21       UICC → ME       PROACTIVE COMMAND: SET UP CALL 4.6.1         22       ME → USER       ME displays "CONFIRMATION 1" during the user confirmation phase The user confirms the set up call       [user confirmation is displayed with bold on]         24       ME □ □USS       The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME receives the CONNECT message from the USS.       [second alpha identifier is displayed with bold on]         25       USS → ME       TRMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.       [The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]         26       ME → UICC       TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.       [Command performed successfully]         27       USER → ME       PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3       [Command performed successfully]         29       ME → UICC → ME       PROACTIVE COMMAND: SET UP CALL 4.6.3       PROACTIVE COMMAND: SET UP CALL 4.6.3         30       ME → USER       ME displays "CONFIRMATION 3"	13			
CALL 4.6.1  ME → USER  USER → ME  USER → ME  USER → ME  USER → ME  The user confirms the set up call  The ME attempts to set up a call to "+012340123456".  The ME displays "CALL 1"  The ME displays "CALL 1"  The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC  TERMINAL RESPONSE 4.6.1  The ME shall not update EF LND with the called party address.  The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  TETCH  ME displays "CALL 1"  The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]  [Command performed successfully]  The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  THE WE → UICC  ME → UICC → ME  WE → UICC → ME  REACTIVE COMMAND: SET UP CALL 4.6.3  ME → USER  ME displays "CONFIRMATION 3"				
22	21	$UICC \to ME$		
during the user confirmation phase The user confirms the set up call  24 ME □□USS The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME receives the CONNECT message from the USS.  25 USS → ME  ME → UICC  ME → UICC  TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 FETCH  PROACTIVE COMMAND: SET UP CALL 4.6.3  ME → UICC → ME  ME → UICC   ME  ME → UICC  ME → UICC → ME	22	ME → IISEP		
USER → ME The user confirms the set up call  ME □□USS The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1"  The ME receives the CONNECT message from the USS.  ME → UICC TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode.  USER → ME UICC → ME PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  ME → UICC → ME OACTIVE COMMAND: SET UP CALL 4.6.3  ME → USER → ME DICC HE COMMAND: SET UP CALL 4.6.3  ME → USER → ME DICC HE COMMAND: SET UP CALL 4.6.3  ME → USER → ME DISER ME		IVIL -> USLIX	during the user confirmation phase	
The ME attempts to set up a call to "+012340123456". The ME displays "CALL 1" The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC  TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  ME → UICC → ME  ME → UICC  ME → UICC → ME  ME → UICC  ME → UICC → ME  NE → UICC → ME  ME → UICC → ME  NE → UICC → ME	23	$USER \to ME$		T
<ul> <li>USS → ME</li> <li>USS → ME</li> <li>USS → ME</li> <li>WE → UICC</li> <li>TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode.</li> <li>UICC → ME</li> <li>WE → UICC</li> <li>WE → UICC</li> <li>WE → COMMAND PENDING: SET UP CALL 4.6.3 FETCH PROACTIVE COMMAND: SET UP CALL 4.6.3 ME → USER</li> <li>ME → USER</li> <li>ME → USER</li> <li>ME displays "CONFIRMATION 3"</li> <li>bold on]</li> <li>[The USS also has to handle the START DTMF and STOP DTMF messages sent by the ME in an appropriate way]</li> <li>[Command performed successfully]</li> </ul>	24	ME HHIISS	The ME attempts to set up a call to	
The ME displays "CALL 1" The ME receives the CONNECT message from the USS.  ME → UICC  ME → UICC  TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  ME → UICC → ME  ME displays "CONFIRMATION 3"	Z4	IVIL LILUGG		
message from the USS.  26 ME → UICC  TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.  The user ends the call after 10 s. The ME returns in idle mode.  27 UICC → ME  28 UICC → ME  WE → UICC  30 UICC → ME  ME → UICC  ME → UICC  ME  ME → USER  ME displays "CONFIRMATION 3"  DTMF and STOP DTMF messages sent by the ME in an appropriate way] [Command performed successfully]			The ME displays "CALL 1"	-
26 ME → UICC  TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.  The user ends the call after 10 s. The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 FETCH PROACTIVE COMMAND: SET UP CALL 4.6.3  ME → USER  ME displays "CONFIRMATION 3"	25	$USS \to ME$		
26 ME → UICC TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address.  27 USER → ME  28 UICC → ME 29 ME → UICC 30 UICC → ME 31 ME → USER  TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with the called party address. The user ends the call after 10 s. The ME returns in idle mode. PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 FETCH PROACTIVE COMMAND: SET UP CALL 4.6.3 ME displays "CONFIRMATION 3"			message from the USS.	
The ME shall not update EF LND with the called party address.  27 USER → ME  The user ends the call after 10 s. The ME returns in idle mode.  28 UICC → ME  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 FETCH  PROACTIVE COMMAND: SET UP CALL 4.6.3  ME → USER  The user ends the call after 10 s. The ME returns in idle mode.  PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3 FETCH  PROACTIVE COMMAND: SET UP CALL 4.6.3  ME displays "CONFIRMATION 3"	26	ME → UICC	TERMINAL RESPONSE 4.6.1	
27 USER → ME The user ends the call after 10 s. The ME returns in idle mode.  28 UICC → ME PROACTIVE COMMAND PENDING:  SET UP CALL 4.6.3  FETCH  PROACTIVE COMMAND: SET UP  CALL 4.6.3  ME → USER  The user ends the call after 10 s.  The ME returns in idle mode.  PROACTIVE COMMAND: SET UP  CALL 4.6.3  ME displays "CONFIRMATION 3"			The ME shall not update EF LND with	
The ME returns in idle mode.  28 UICC → ME PROACTIVE COMMAND PENDING:  SET UP CALL 4.6.3  FETCH  30 UICC → ME PROACTIVE COMMAND: SET UP  CALL 4.6.3  ME → USER ME displays "CONFIRMATION 3"	27	LICED ME		
28 UICC → ME PROACTIVE COMMAND PENDING: SET UP CALL 4.6.3  FETCH 30 UICC → ME PROACTIVE COMMAND: SET UP CALL 4.6.3  31 ME → USER ME displays "CONFIRMATION 3"	21	USEK → ME		
29 ME $\rightarrow$ UICC FETCH PROACTIVE COMMAND: SET UP CALL 4.6.3 30 ME $\rightarrow$ USER ME displays "CONFIRMATION 3"	28	$UICC \to ME$		
30 UICC → ME PROACTIVE COMMAND: SET UP CALL 4.6.3  31 ME → USER ME displays "CONFIRMATION 3"			SET UP CALL 4.6.3	
CALL 4.6.3  ME → USER ME displays "CONFIRMATION 3"				
31 ME → USER ME displays "CONFIRMATION 3"	30			
during the user confirmation phase	31	$ME \rightarrow USER$	ME displays "CONFIRMATION 3"	
			during the user confirmation phase	

32	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with bold off]
33	$ME \rightarrow \square USS$	The ME attempts to set up a call to "+012340123456".	[second alpha identifier is displayed with bold off]
34	$USS \to ME$	The ME displays "CALL 3" The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent
35	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.6.1 The ME shall not update EF LND with	by the ME in an appropriate way] [Command performed successfully]
36	$USER \to ME$	the called party address. The user ends the call after 10 s. The ME returns in idle mode.	

#### PROACTIVE COMMAND: SET UP CALL 4.6.1

## Logically:

Command details

Command number:

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:

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:

## 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.

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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
2	ME . LUCO	SET UP CALL 4.7.1 FETCH	
3	$ME \rightarrow UICC$ $UICC \rightarrow ME$	PROACTIVE COMMAND: SET UP	
	0.00 /=	CALL 4.7.1	
4	$ME \rightarrow USER$	ME displays "CONFIRMATION 1"	
5	$USER \to ME$	during the user confirmation phase The user confirms the set up call	[user confirmation is displayed with italic
	OOLK 7 WIL	·	on]
6	$ME \to USS$	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456". The ME displays "CALL 1"	italic on]
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
8	$ME \to UICC$	TERMINAL RESPONSE 4.7.1	by the ME in an appropriate way] [Command performed successfully]
		The ME shall not update EF LND with	[Command performed successfully]
		the called party address.	
9	$USER \to ME$	The user ends the call after 10 s. The ME returns in idle mode.	
10	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 4.7.2	
11	ME → UICC	FETCH	
12	$UICC \to ME$	PROACTIVE COMMAND: SET UP ICALL 4.7.2	
13	$ME \rightarrow USER$	ME displays "CONFIRMATION 2"	
		during the user confirmation phase	
14	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with italic off]
15	ME → □USS	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456".	italic off]
16	$USS \to ME$	The ME displays "CALL 2" The ME receives the CONNECT	The USS also has to handle the START
10	USS → IVIE	message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with	[Command performed successfully]
		the called party address.	
18	$USER \to ME$	The user ends the call after 10 s.	
19	$UICC \to ME$	The ME returns in idle mode. PROACTIVE COMMAND PENDING:	
13	OICC → IVIE	SET UP CALL 4.7.1	
20	$ME \rightarrow UICC$	FETCH	
21	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL 4.7.1	
22	$ME \rightarrow USER$	ME displays "CONFIRMATION 1"	
		during the user confirmation phase	
23	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with italic on]
24	ME □□USS	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456".	italic on]
25	LICC ME	The ME displays "CALL 1" The ME receives the CONNECT	The USS also has to handle the START
25	$USS \to ME$	message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
26	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.7.1	[Command performed successfully]
		The ME shall not update EF LND with the called party address.	
27	$USER \to ME$	The user ends the call after 10 s.	
20	LUCC	The ME returns in idle mode.	
28	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP CALL 4.7.3	
29	$ME \rightarrow UICC$	FETCH	
30	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
31	$ME \to USER$	CALL 4.7.3 ME displays "CONFIRMATION 3"	
	/ 33210	during the user confirmation phase	

32	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with italic off]
33	$ME \rightarrow \square USS$	The ME attempts to set up a call to "+012340123456".	[second alpha identifier is displayed with italic off]
34	$USS \to ME$	The ME displays "CALL 3" The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent
35	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.7.1 The ME shall not update EF LND with	by the ME in an appropriate way] [Command performed successfully]
36	$USER \to ME$	the called party address. The user ends the call after 10 s. The ME returns in idle mode.	

#### PROACTIVE COMMAND: SET UP CALL 4.7.1

# Logically:

Command details

Command number:

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	<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	20	B4	D0	04	00	06	20	B4		

#### PROACTIVE COMMAND: SET UP CALL 4.7.2

## Logically:

Command details

Command number:

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
DLIC ILV.	0.	00	0.1		00	02	02	02	0.	00	0.1	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.

27.22.4.13.4.8.4.2 Procedure

Expected Sequence 4.8 (SET UP CALL, Text Attribute – Underline On)

Step	Direction	MESSAGE / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING:	
_		SET UP CALL 4.8.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
4	$ME \rightarrow USER$	ME displays "CONFIRMATION 1"	
	IVIL -> USLK	during the user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with
			underline on]
6	$ME \rightarrow USS$	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456". The ME displays "CALL 1"	underline on]
7	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.8.1	[Command performed successfully]
		The ME shall not update EF LND with the called party address.	
9	USER → ME	The user ends the call after 10 s.	
		The ME returns in idle mode.	
10	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
11	ME LUCC	SET UP CALL 4.8.2 FETCH	
12	$ME \rightarrow UICC$ $UICC \rightarrow ME$	PROACTIVE COMMAND: SET UP	
12		CALL 4.8.2	
13	$ME \rightarrow USER$	ME displays "CONFIRMATION 2"	
		during the user confirmation phase	
14	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with
15	ME → □USS	The ME attempts to set up a call to	underline off] [second alpha identifier is displayed with
'0		"+012340123456".	underline off]
		The ME displays "CALL 2"	,
16	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
17	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.8.1	by the ME in an appropriate way] [Command performed successfully]
''	IVIL 70100	The ME shall not update EF LND with	[command ponomica decession,]
		the called party address.	
18	$USER \to ME$	The user ends the call after 10 s.	
19	$UICC \to ME$	The ME returns in idle mode. PROACTIVE COMMAND PENDING:	
13		SET UP CALL 4.8.1	
20	$ME \rightarrow UICC$	FETCH	
21	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
00	ME 11055	CALL 4.8.1	
22	$ME \rightarrow USER$	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with
		·	underline on]
24	ME □□USS	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456". The ME displays "CALL 1"	underline on]
25	$USS \to ME$	The ME displays CALL I	The USS also has to handle the START
	J J J VIL	message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
26	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.8.1	[Command performed successfully]
		The ME shall not update EF LND with the called party address.	
27	USER → ME	The user ends the call after 10 s.	
		The ME returns in idle mode.	
28	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
20	ME LUCC	SET UP CALL 4.8.3 FETCH	
29 30	$ME \rightarrow UICC$ $UICC \rightarrow ME$	PROACTIVE COMMAND: SET UP	
30		CALL 4.8.3	
31	$ME \rightarrow USER$	ME displays "CONFIRMATION 3"	
		during the user confirmation phase	

32	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with underline off]
33	$ME \rightarrow \square USS$	The ME attempts to set up a call to "+012340123456".	[second alpha identifier is displayed with Undeline off]
34	$USS \to ME$	The ME displays "CALL 3" The ME receives the CONNECT message from the USS.	[The USS also has to handle the START DTMF and STOP DTMF messages sent
35	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.8.1 The ME shall not update EF LND with	by the ME in an appropriate way] [Command performed successfully]
36	$USER \to ME$	the called party address. The user ends the call after 10 s. The ME returns in idle mode.	

#### PROACTIVE COMMAND: SET UP CALL 4.8.1

## Logically:

Command details

Command number:

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	<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	40	B4	D0	04	00	06	40	B4		

#### PROACTIVE COMMAND: SET UP CALL 4.8.2

## Logically:

Command details

Command number:

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:

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:

## 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.

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:	Comments
_		SET UP CALL 4.9.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
4	$ME \rightarrow USER$	ME displays "CONFIRMATION 1"	
		during the user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with
6	$ME \to USS$	The ME attempts to set up a call to	strikethrough on] [second alpha identifier is displayed with
	IVIL -> 000	"+012340123456".	strikethrough on]
		The ME displays "CALL 1"	
7	$USS \to ME$	The ME receives the CONNECT	The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent by the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.9.1	[Command performed successfully]
		The ME shall not update EF LND with	
9	USER → ME	the called party address. The user ends the call after 10 s.	
3	USER → IVIE	The ME returns in idle mode.	
10	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
4.4	ME 11100	SET UP CALL 4.9.2	
11	$ME \rightarrow UICC$ $UICC \rightarrow ME$	FETCH PROACTIVE COMMAND: SET UP	
12	UICC → IVIE	CALL 4.9.2	
13	$ME \rightarrow USER$	ME displays "CONFIRMATION 2"	
4.4	LIGED ME	during the user confirmation phase	funda confirmation in displayed with
14	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with strikethrough off]
15	ME → □USS	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456".	strikethrough off]
16	$USS \to ME$	The ME displays "CALL 2" The ME receives the CONNECT	The USS also has to handle the START
10	USS → IVIE	message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.9.1	[Command performed successfully]
		The ME shall not update EF LND with the called party address.	
18	$USER \to ME$	The user ends the call after 10 s.	
4.0		The ME returns in idle mode.	
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP CALL 4.9.1	
20	$ME \rightarrow UICC$	FETCH	
21	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
00		CALL 4.9.1	
22	$ME \rightarrow USER$	ME displays "CONFIRMATION 1" during the user confirmation phase	
23	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with
			strikethrough on]
24	ME □□USS	The ME attempts to set up a call to "+012340123456".	[second alpha identifier is displayed with strikethrough on]
		The ME displays "CALL 1"	
25	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
26	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.9.1	by the ME in an appropriate way] [Command performed successfully]
	2 / 3100	The ME shall not update EF LND with	[
07		the called party address.	
27	$USER \to ME$	The user ends the call after 10 s. The ME returns in idle mode.	
28	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 4.9.3	
29	ME → UICC	FETCH	
30	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL 4.9.3	
31	$ME \rightarrow USER$	ME displays "CONFIRMATION 3"	
		during the user confirmation phase	

32	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with strikethrough off]
33	$ME \rightarrow \square USS$	The ME attempts to set up a call to "+012340123456".	[second alpha identifier is displayed with strikethrough off]
		The ME displays "CALL 3"	January and a surf
34	$USS \to ME$	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	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.9.1	[Command performed successfully]
		The ME shall not update EF LND with	
		the called party address.	
36	$USER \to ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	

#### PROACTIVE COMMAND: SET UP CALL 4.9.1

### Logically:

Command details

Command number:

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:

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:

### 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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 4.10.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
		CALL 4.10.1	
4	$ME \rightarrow USER$	ME displays "CONFIRMATION 1"	
		during the user confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirmation is displayed with
			foreground and background colour
		TI NAT	according to Text Attribute configuration]
6	$ME \rightarrow USS$	The ME attempts to set up a call to	[second alpha identifier is displayed with
		"+012340123456".	foreground and background colour
7	$USS \to ME$	The ME displays "CALL 1" The ME receives the CONNECT	according to Text Attribute configuration] [The USS also has to handle the START
/	USS → IVIE	message from the USS.	DTMF and STOP DTMF messages sent
		linessage from the 055.	by the ME in an appropriate way]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.10.1	[Command performed successfully]
	WIE 7 0100	The ME shall not update EF LND with	
		the called party address.	
9	$USER \rightarrow ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	
10	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 4.10.2	
11	$ME \rightarrow UICC$	FETCH	
12	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
40		CALL 4.10.2	
13	$ME \rightarrow USER$	ME displays "CONFIRMATION 2"	
14	LICED . ME	during the user confirmation phase The user confirms the set up call	[user confirmation is displayed with ME's
14	$USER \to ME$	The user committis the set up can	default foreground and background
			colourl
15	ME → □USS	The ME attempts to set up a call to	[second alpha identifier is displayed with
	IVIL 7 BOOG	"+012340123456".	ME's default foreground and background
		The ME displays "CALL 2"	colour]
16	$USS \to ME$	The ME receives the CONNECT	[The USS also has to handle the START
		message from the USS.	DTMF and STOP DTMF messages sent
			by the ME in an appropriate way]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE 4.10.1	[Command performed successfully]
		The ME shall not update EF LND with	
4.5		the called party address.	
18	$USER \to ME$	The user ends the call after 10 s.	
		The ME returns in idle mode.	

### PROACTIVE COMMAND: SET UP CALL 4.10.1

# Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "CONFIRMATION 1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456p1p2"

Alpha Identifier (call set up phase): "CALL 1"

Text Attribute (user confirmation phase)

Formatting position: 0 Formatting length: 14

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Text Attribute (call set up phase)

Formatting position: 0 Formatting length: 6

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

Strikethrough Off

Colour: Bright Yellow Foreground, Dark Green Background

Coding:

BER-TLV:	D0	38	81	03	01	10	00	82	02	81	83	85
	0E	43	4F	4E	46	49	52	4D	41	54	49	<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

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET	
		UP CALL 5.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL 5.1.1	
4	$ME \to USER$	*****	["ЗДРАВСТВУЙТЕ": "Hello" in Russian]
5	$USER \to ME$	The user confirms the call set up	[user confirmation]
6	$ME \to USS$	The ME attempts to set up a call to "+012340123456"	
7	$USS \to ME$	The ME receives the CONNECT message from the USS.	
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 5.1.1 The ME shall not update EF LND with the	[Command performed successfully]
9	$USER \to ME$	called party address. The user ends the call after 5 s. The ME returns to idle mode.	

### PROACTIVE COMMAND: SET UP CALL 5.1.1

# Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC
Destination device: Network

Alpha identifier: "ЗДРАВСТВУЙТЕ"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456"

### Coding:

BER-TLV:	D0	2D	81	03	01	10	00	82	02	81	83	85
	19	80	04	17	04	14	04	20	04	10	04	12
	04	21	04	22	04	12	04	23	04	19	04	22
	04	15	86	07	91	10	32	04	21	43	65	

# TERMINAL RESPONSE: SET UP CALL 5.1.1

# Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 5.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
		CALL 5.2.1	
4	$ME \rightarrow USER$	ME displays "ЗДРАВСТВУЙТЕ1" during	["ЗДРАВСТВУЙТЕ1" : "Hello1" in
			Russian]
5		The user confirms the set up call	[user confirmation]
6	$ME \to USS$	The ME attempts to set up a call to	[second alpha identifier]
		"+012340123456".	["ЗДРАВСТВУЙТЕ2" : "Hello2" in
		, , , , , , , , , , , , , , , , , , , ,	Russian]
7	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 5.2.1	[Command performed successfully]
		The ME shall not update EF LND with	
		the called party address.	
9	USER $\rightarrow$ ME	The user ends the call after 5 s.	
		The ME returns in idle mode.	

### PROACTIVE COMMAND: SET UP CALL 5.2.1

Logically:

Command details

Command number:

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:

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:

### 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET	
		UP CALL 6.1.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL	
		6.1.1	
4	$ME \rightarrow USER$	ME displays "不忙" during user confirmation	["不忙" : "Not Busy" in Chinese]
		phase.	
5	$USER \to ME$	1.	[user confirmation]
6	$ME \to USS$	The ME attempts to set up a call to	-
		"+012340123456"	
7	$USS \to ME$	The ME receives the CONNECT message	
		from the USS.	
8	$ME \to UICC$		[Command performed successfully]
		The ME shall not update EF LND with the	
		called party address.	
9	$USER \to ME$	The user ends the call after 5 s.	
		The ME returns to idle mode.	

### PROACTIVE COMMAND: SET UP CALL 6.1.1

# Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "不忙"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456"

## Coding:

BER-TLV:	D0	19	81	03	01	10	00	82	02	81	83	85
	05	80	4E	0D	5F	D9	86	07	91	10	32	04
	21	43	65									

# TERMINAL RESPONSE: SET UP CALL 6.1.1

### Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 6.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL 6.2.1	
4	$ME \rightarrow USER$	ME displays "确定" during the user	["确定" : "Confirmation" in Chinese]
5 6		confirmation phase The user confirms the set up call The ME attempts to set up a call to "+012340123456".	[user confirmation] [second alpha identifier] ["打电话":"CALL" in Chinese]
		The ME displays "打电话"	
7	$USS \to ME$	The ME receives the CONNECT message from the USS.	
8	$ME \to UICC$	TERMINAL RESPONSE 6.2.1 The ME shall not update EF LND with	[Command performed successfully]
9	$USER \to ME$	the called party address. The user ends the call after 5 s. The ME returns in idle mode.	

#### PROACTIVE COMMAND: SET UP CALL 6.2.1

Logically:

Command details

Command number:

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET	
		UP CALL 7.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL 7.1.1	
4	$ME \to USER$	ME displays "ル" during user confirmation phase.	[Character in Katakana]
5	$USER \to ME$	The user confirms the call set up	[user confirmation]
6	$ME \to USS$	The ME attempts to set up a call to "+012340123456"	
7	$USS \to ME$	The ME receives the CONNECT message from the USS.	
8	$ME \to UICC$	TERMINAL RESPONSE 7.1.1 The ME shall not update EF LND with the	[Command performed successfully]
9	$USER \to ME$	called party address. The user ends the call after 5 s. The ME returns to idle mode.	

### PROACTIVE COMMAND: SET UP CALL 7.1.1

### Logically:

Command details

Command number:

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: "/\mathcal{V}"

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

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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP CALL 7.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
		CALL 7.2.1	
4	$ME \rightarrow USER$	ME displays "ル1" during the user	[Character in Katakana]
		confirmation phase	
5	$USER \to ME$	The user confirms the set up call	[user confirmation]
6	$ME \to USS$	The ME attempts to set up a call to	[second alpha identifier]
		"+012340123456".	[Character in Katakana]
		The ME displays "/\v2".	
7	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
8	$ME \rightarrow UICC$	TERMINAL RESPONSE 7.2.1	[Command performed successfully]
		The ME shall not update EF LND with	
		the called party address.	
9	USER $\rightarrow$ ME	The user ends the call after 5 s.	
		The ME returns in idle mode.	

### PROACTIVE COMMAND: SET UP CALL 7.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: UICC
Destination device: Network
Alpha identifier: "//1"

Address

TON: International

NPI: ISDN / telephone numbering plan

Dialling number string "012340123456"

Alpha Identifier (call set up phase): "/\(\mathcal{D}\)2"

Coding:

BER-TLV:	D0	20	81	03	01	10	00	82	02	81	83	85
	05	80	30	EB	00	31	86	07	91	10	32	04
	21	43	65	85	05	80	30	EB	00	32		

# TERMINAL RESPONSE: SET UP CALL 7.2.1

Logically:

Command details

Command number: 1

Command type: SET UP CALL

Command qualifier: only if not currently busy on another call

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

### 27.22.4.13.7.5 Test requirement

The ME shall operate in the manner defined in expected sequences 7.1 to 7.2.

# 27.22.4.14 POLLING OFF

# 27.22.4.14.1 Definition and applicability

See clause 3.2.2.

# 27.22.4.14.2 Conformance requirement

The ME shall support the POLLING OFF as defined in:

- TS 31.111 [15] clause 5.2, clause 6.4.14, clause 6.8, clause 6.11, clause 8.6 and clause 8.7.

# 27.22.4.14.3 Test purpose

To verify that the ME cancels the effect of any previous POLL INTERVAL commands and does not effect UICC presence detection.

# 27.22.4.14.4 Method of test

# 27.22.4.14.4.1 Initial conditions

For sequence 1.1:

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

For sequence 1.2:

- The default E-UTRAN/EPC UICC, the default E-UTRAN parameters are used.
- The ME is connected to the USIM Simulator and to the E-USS/NB-SS.

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

# 27.22.4.14.4.2 Procedure

# **Expected Sequence 1.1 (POLLING OFF)**

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: POLL INTERVAL	
		1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	Interval = 1 min
		POLL INTERVAL 1.1.1	
4	$ME \rightarrow UICC$		[command performed successfully, duration
		INTERVAL 1.1.1 A or	depends on the ME's capabilities]
		TERMINAL RESPONSE: POLL	
		INTERVAL 1.1.1B	
5	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: POLLING OFF 1.1.2	
	ME IIIOO	···· <del>-</del>	
6	ME → UICC	FETCH	
7	$UICC \to ME$	PROACTIVE COMMAND:	
	145	POLLING OFF 1.1.2	for any and a sufferment of a constant of the f
8	$ME \rightarrow UICC$	TERMINAL RESPONSE: POLLING OFF 1.1.2	[command performed successfully]
9	$USER \to ME$	Call to be set up	A call shall be set up using the generic call setup for circuit switched call or to activate a
			PDP context.
10	MF → UICC	Periods of inactivity on the	In case of PDP context for a terminal that
10	IVIL -> 0100		supports Rel-12 or later, exchange of data
		exceed 30 seconds	with the network may be required to
			guarantee the correct result of the test.
11	USER → ME	Call to be terminated 3 minutes	
	OSER / IVIE	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
D	<b>.</b>	00	<b>.</b>			U_			<b>.</b>			

# **Expected Sequence 1.2 (POLLING OFF, E-UTRAN)**

Step	Direction	MESSAGE / Action	Comments
1	$ME \rightarrow E$ -	The ME successfully performs	
	USS/NB-SS	EPS bearer context activation	
2	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: POLL INTERVAL	
		1.1.1	
3	$ME \rightarrow UICC$	FETCH	
4	$UICC \to ME$	PROACTIVE COMMAND:	Interval = 1 min
		POLL INTERVAL 1.1.1	
5	$ME \to UICC$		[command performed successfully, duration
			depends on the ME's capabilities]
		TERMINAL RESPONSE: POLL	
		INTERVAL 1.1.1B	
6	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: POLLING OFF	
		1.1.2	
7	, 0.00	FETCH	
8	$UICC \to ME$	PROACTIVE COMMAND:	
		POLLING OFF 1.1.2	
9	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[command performed successfully]
		POLLING OFF 1.1.2	
10	$ME \rightarrow UICC$		For a terminal that supports Rel-12 or later,
		UICC-ME interface shall not	exchange of data with the network is required
		exceed 30 seconds	to guarantee the correct result of the test.

# 27.22.4.14.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 - 1.2.

# 27.22.4.15 PROVIDE LOCAL INFORMATION

# 27.22.4.15.1 Definition and applicability

See clause 3.2.2.

# 27.22.4.15.2 Conformance requirement

The ME shall support the PROVIDE LOCAL INFORMATION facility as defined in:

- TS 31.111 [15] clause 6.4.15.

# 27.22.4.15.3 Test purpose

To verify that the ME returns the following requested local information within a TERMINAL RESPONSE:

- location information:
  - Mobile Country Code (MCC);
  - Mobile Network Code (MNC);
  - Location Area Code (LAC); and
  - cell ID of the current serving cell;
- the IMEI of the ME;
- the Network Measurement Results and the BCCH channel list;
- the current date, time and time zone;
- the current ME language setting;
- the Timing Advance;
- the Access Technology;
- the IMEISV
- the Search Mode change
- the Battery charge State
- the UTRAN intra- and inter-frequency measurements,
- the E-UTRAN intra- and inter-frequency measurements.
- The CSG ID list and corresponding HNB names of surrounding CSG cells (if class "q" is supported).

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 except for sequence 1.10 has performed the location update procedure or routing area update or combined update procedure.

The E- UTRAN/NB-IoT parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Tracking Area Code (TAC) = 0001;
- E-UTRAN Cell Identity value = 0001 (28 bits);

The UTRAN parameters of the system simulator are:

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

- Cell Identity value = 0001;

The GERAN parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Location Area Code (LAC) = 0001;
- Cell Identity value = 0001;
- Timing advance = 0;
- Neighbour allocations = 561, 565, 568, 569, 573, 575, 577, 581, 582 and 585.

The PCS 1900 parameters of the system simulator are:

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

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/NB-SS setting up only a E-UTRAN/NB-IoT 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, with second cell having EARFCN less than maxEARFCN. For both sequences if the USIM request is triggered in the RRC\_CONNECTED state, the system simulator shall configure the corresponding frequency measurement for a sufficient period before sending the USIM request.

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		PROVIDE LOCAL INFORMATION	
		1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully, MCC MNC LAC
		PROVIDE LOCAL INFORMATION	and Cell Identity as USS, option A shall apply for
		1.1.1A	3GPP parameters]
		or	[Command performed successfully, MCC MNC LAC
		TERMINAL RESPONSE:	and Cell Identity as USS, option B shall apply for
		PROVIDE LOCAL INFORMATION	PCS1900 parameters]
		1.1.1B	

### 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:

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		PROVIDE LOCAL INFORMATION	
		1.2.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully, IMEI
		PROVIDE LOCAL INFORMATION	as declared in A.2/23, coded according to
		1.2.1	TS 24.008 [10], clause 10.5.1, but spare
			digit shall be zero when transmitted by the
			ME]

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "01" IMEI of the ME

Device identities

Source device: UICC Destination device: ME

Coding:

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

### TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.2.1

Logically:

Command details

Command number:

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		

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		PROVIDE LOCAL INFORMATION	
		1.3.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully,
		PROVIDE LOCAL INFORMATION	NMR as USS ]
		1.3.1	

### PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.3.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION
Oualifier: "02" Network Measurement Results

Device identities

Source device: UICC Destination device: ME

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	$UICC \to ME$	PROACTIVE COMMAND PENDING	
		PROVIDE LOCAL INFORMATION 1.6.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: PROVIDE	
		LOCAL INFORMATION 1.6.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: PROVIDE	[Command performed successfully]
		LOCAL INFORMATION 1.6.1	

### PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.6.1

Logically:

Command details

Command number:

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "05" Timing Advance

Device identities

Source device: UICC Destination device: ME

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.7.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		PROVIDE LOCAL INFORMATION	
		1.7.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully]
		PROVIDE LOCAL INFORMATION	
		1.7.1	

## 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:

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.9.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		PROVIDE LOCAL	
		INFORMATION 1.9.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully,
		PROVIDE LOCAL	IMEISV as declared in A.2/24, coded as
		INFORMATION 1.9.1	defined in TS 24.008 [10]]

### PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.9.1

Logically:

Command details

Command number:

Command type: PROVIDE LOCAL INFORMATION

Oualifier: "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	

# **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	$UICC \to ME$	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.10.1	
3	$ME \rightarrow UICC$	FETCH	
4	$UICC \to ME$	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.1	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.10.1	[Command performed successfully]
6	User	The user selects automatic network selection mode	
7	$UICC \to ME$	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.10.2	
8	$ME \rightarrow UICC$	FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.2	
10	$ME \rightarrow UICC$	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.10.2	[Command performed successfully]

# PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.10.1

# Logically:

Command details

Command number:

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:

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.12.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		PROVIDE LOCAL INFORMATION	
		1.12.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully]
		PROVIDE LOCAL INFORMATION	·
		1.12.1	

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.12.1

Logically:

Command details

Command number:

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

intra Freq Measured Results List

# Coding:

BER-TLV:	81	03	01	26	02	82	02	82	81	83	01	00
	96	Note	80	Note	Note	Note						
		1		2	3	4						

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note2: This byte shall be checked bitwise against pattern: 0000 xxxx (x – don't care).

Note 3: This byte shall be checked bitwise against pattern: x000 0111 (x – don't care).

Note 4: The remaining bytes shall not be verified.

The network measurement result indicated by the sequence of bytes above is:

```
MeasurementReport
measurementIdentity
measuredResults: intraFreqMeasuredResultsList (0)
intraFreqMeasuredResultsList
CellMeasuredResults
modeSpecificInfo: fdd (0)
fdd
primaryCPICH-Info
cpich-Ec-N0
cpich-RSCP
```

pathloss

# **Expected Sequence 1.13 (PROVIDE LOCAL INFORMATION, Inter-frequency UTRAN Measurements)**

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.13.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.13.1	
4	ME → UICC	TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.13.1	[Command performed successfully]

### PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.13.1

# Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION
Qualifier: "02" Network Measurement Results

Device identities

Source device: UICC
Destination device: ME
UTRAN/E-UTRAN Measurement Qualifier

UTRAN/E-UTRAN Measurement Qualifier: "02" Inter-frequency measurements

### Coding:

BER-TLV:	D0	0C	81	03	01	26	02	82	02	81	82	69
	01	02										

#### TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.13.1

The actual values of the measurements are not tested.

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION
Qualifier: "02" Network Measurement Results

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully
Network Measurement Results MEASUREMENT REPORT message

inter Freq Measured Results List

Coding:

BER-TLV:	81	03	01	26	02	82	02	82	81	83	01	00
	96	Note	80	Note	Note	Note	Note	Note	Note	Note		
		1		2	3	4	4	5	6	7		

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note2: This byte shall be checked bitwise against pattern: 0001 xxx1 (x – don't care).

Note 3: This byte shall be checked bitwise against pattern: 1100 xxxx (x – don't care).

Note 4: This byte shall not be verified.

Note 5: This byte shall be checked bitwise against pattern: xxxx xx00 (x – don't care).

Note 6: This byte shall be checked bitwise against pattern: 0011 1xxx (x – don't care).

Note 7: The remaining bytes shall not be verified.

The network measurement result indicated by the sequence of bytes above is:

```
MeasurementReport
measuredResults: interFreqMeasuredResultsList InterFreqMeasuredResultsList (1)
interFreqMeasuredResultsList
InterFreqMeasuredResults
frequencyInfo
utra-CarrierRSSI
interFreqCellMeasuredResultsList
CellMeasuredResults
modeSpecificInfo: fdd (0)
fdd
primaryCPICH-Info
cpich-Ec-N0
cpich-RSCP
pathloss
```

# Expected Sequence 1.14 (PROVIDE LOCAL INFORMATION, Access Technology, E-UTRAN)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.14.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		PROVIDE LOCAL INFORMATION	
		1.14.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully]
		PROVIDE LOCAL INFORMATION	
		1.14.1	

PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.14.1

Logically:

Command details

Command number:

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.15.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		PROVIDE LOCAL INFORMATION	
		1.15.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully]
		PROVIDE LOCAL INFORMATION	
		1.15.1	

# 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	02	Note	Note	Note	Note					
		1		2	3	4	5					

Note 1: This is the length indicator for the following bytes which represent the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note 2: This byte shall be checked bitwise against pattern: 0000 xxxx (x – don't care).

Note 3: This byte shall not be verified.

Note 4: This byte shall be checked bitwise against pattern: x000 xxxx (x – don't care).

Note 5: The remaining bytes shall not be verified.

The network measurement result indicated by the sequence of bytes above is:

Network Measurement results:
measurementReport
criticalExtensions: c1 (0)
c1: measurementReport-r8 (0)
measurementReport-r8
measResults
... {Not Verified}
measResultNeighCells:
... {Not Verified}

Expected Sequence 1.16 (PROVIDE LOCAL INFORMATION, E-UTRAN Inter-Frequency Measurements)

Step	Direction	MESSAGE / Action	Comments
1	ME	Terminal is in RRC idle state	
2	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.16.1	
3	$ME \rightarrow UICC$	FETCH	
4	$UICC \to ME$	PROACTIVE COMMAND:	
		PROVIDE LOCAL INFORMATION	
		1.16.1	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully,
		PROVIDE LOCAL INFORMATION	limited service]
		1.16.1	

### 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:

Command type: PROVIDE LOCAL INFORMATION
Qualifier: "02" Network Measurement Results

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Network Measurement Results Frequency value of inter-frequency E-UTRAN cell and

MEASUREMENT REPORT message

meas Result Neigh Cells

BER-TLV:	81	03	01	26	02	82	02	82	81	83	01	00
	96	Note	Note	Note	02	Note	Note	Note	Note			
		1	2	2		3	4	5	6			

Note 1: This is the length indicator for the following bytes which contain 2 bytes with the frequency value coded as the ARFCN-ValueEUTRA followed by the Measurement report coded in ASN.1 and therefore the length cannot be foreseen.

Note 2: This is the frequency of the second E-UTRA cell, coded as ARFCN-ValueEUTRA. This byte shall not be verified.

Note 3: This byte shall be checked bitwise against pattern: 0000 xxxx (x – don't care).

Note 4: This byte shall not be verified.

Note 5: This byte shall be checked bitwise against pattern: x000 xxxx (x – don't care).

Note 6: The remaining bytes shall not be verified.

# Expected Sequence 1.17 (PROVIDE LOCAL INFORMATION, E-UTRAN Local Info (MCC, MNC, TAC & E-UTRAN Cell ID))

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING PROVIDE LOCAL	
		INFORMATION 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		PROVIDE LOCAL INFORMATION	
		1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE:	
		PROVIDE LOCAL INFORMATION	
		1.17.1	

### PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1

Sames as PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.1.1 in expected sequence 1.1

TERMINAL RESPONSE: PROVIDE LOCAL INFORMATION 1.17.1

Logically:

Command details

Command number: 1

Command type: PROVIDE LOCAL INFORMATION

Qualifier: "00" Location information (MCC MNC TAC and E-UTRAN Cell Identity)

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Location Information

MCC & MNC: MCC = 001, MNC = 01

Tracking Area Code: 0001

E-UTRAN Cell Identifier: 0001 (28 bits)

BER-TLV:	81	03	01	26	00	82	02	82	81	83	01	00
	93	09	00	F1	10	00	01	00	00	00	1F	

# Expected Sequence 1.18 (PROVIDE LOCAL INFORMATION, Discovery of surrounding CSG cells)

Step	Direction	MESSAGE / Action	Comments
1	E-USS	Cell 1 is enabled, with csg-indication set to TRUE	
		Cell 2 disabled	
2	ME	A manual CSG cell selection is performed.	
3	$UICC \to ME$	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.18.1	
4	$ME \rightarrow UICC$	FETCH	
5	$UICC \to ME$	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.18.1	1 cell in the list
6	$ME \rightarrow UICC$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING PROVIDE LOCAL INFORMATION 1.18.1	
10	$ME \rightarrow UICC$	FETCH	
11	0.00 /	PROACTIVE COMMAND: PROVIDE LOCAL INFORMATION 1.18.1	2 cells in the list
12	$ME \rightarrow UICC$	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:

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

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
\ <u>-</u>	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP	
		EVENT LIST 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT	
		LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT	
		LIST 1.1.1	
5	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
6	$USS \to ME$	SETUP 1.1.1	[Incoming call alert]
7	$USER \to ME$	User shall accept the incoming call	
8	$ME \rightarrow USS$	CONNECT 1.1.1	
9	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD CALL	[Call Connected Event]
		CONNECTED 1.1.1	
10	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	

# PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

## Logically:

Command details

Command number:

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: UICC Destination device: ME

Event list

Event 1: Call Connected

# Coding:

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

TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

# **SET UP 1.1.1**

Logically:

Transaction identifier

TI value: 0 (bit 5-7)

Address

TON: "Unknown"

NPI: "ISDN/ telephone numbering plan"

Dialling number string: "9876"

CONNECT 1.1.1

Logically:

Transaction identifier

TI value: 0 (bit 5-7) TI flag: 1 (bit 8)

ENVELOPE: EVENT DOWNLOAD CALL CONNECTED 1.1.1

Logically

Event list

Event 1: Call Connected

Device identities

Source device: ME
Destination device: UICC

Transaction identifier

TI value: 0 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 1 (bit 8)

Coding:

BER-TLV: D6 0A	99 01	01 82	02 82	81 9C	01	80
----------------	-------	-------	-------	-------	----	----

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
		1.2.1	
2	$ME \rightarrow UICC$		
3	$UICC \to ME$		[Call Connected and Call Disconnected
		EVENT LIST 1.2.1	Events]
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1	
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.2.2	
6	$ME \rightarrow UICC$	FETCH	
7	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2	[Call Disconnected Event]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2	
9	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
10	$USS \to ME$	SETUP 1.2.2	[Incoming call alert]
11	$USER \to ME$	User shall accept the incoming call	
12	$ME \to USS$	CONNECT 1.2.2	
13	$USS \to ME$	DISCONNECT 1.2.2	
14	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	[Call Disconnect Event]
		CALL DISCONNECT 1.2.2A	
		or	
		ENVELOPE: EVENT DOWNLOAD	
		CALL DISCONNECT 1.2.2B	
15	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	

## PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: UICC Destination device: ME

Event list

Event 1: Call Connected Event 2: Call Disconnected

Coding:

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

# TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

#### PROACTIVE COMMAND: SET UP EVENT LIST 1.2.2

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00

Device identities

Source device: UICC Destination device: ME

Event list

Event 1: Call Disconnected

Coding:

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

#### TERMINAL RESPONSE: SET UP EVENT LIST 1.2.2

Logically:

Command details

Command number:

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

**SET UP 1.2.2** 

Logically:

Transaction identifier

TI value: 0 (bit 5-7)
TI flag: 0 (bit 8)

Address

TON: "Unknown"

NPI: "ISDN/ telephone numbering plan"

Dialling number string: "9876"

CONNECT 1.2.2

Logically:

Transaction identifier

TI value: 0 (bit 5-7) TI flag: 1 (bit 8)

#### **DISCONNECT 1.2.2**

Logically:

Transaction identifier

TI value: 0 (bit 5-7)
TI flag: 0 (bit 8)

Cause

Value: Normal call clearing

#### ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2A

Logically:

Event list

Event 1: Call Disconnected

Device identities

Source device: Network
Destination device: UICC

Transaction identifier

TI value: 0 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 0 (bit 8)

Cause

Value: Normal call clearing

Coding:

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

#### ENVELOPE: EVENT DOWNLOAD CALL DISCONNECTED 1.2.2B

Logically:

Event list

Event 1: Call Disconnected

Device identities

Source device: Network
Destination device: UICC

Transaction identifier

TI value: 0 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 0 (bit 8)

Cause

Value: Normal call clearing

Coding:

BER-TLV:	D6	0E	99	01	02	82	02	83	81	9C	01	00
·	9A	02	E0	90								

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
		1.3.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$		[Call Connected Event]
		EVENT LIST 1.3.1	
	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	
		EVENT LIST 1.3.1	
4	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
_	ME	1.3.2	
5	ME → UICC		
6	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.3.2	[Remove Event]
7	ME LUCC	TERMINAL RESPONSE: SET UP	
'	IVIE → UICC	EVENT LIST 1.3.2	
8	$UICC \to ME$	PROACTIVE UICC SESSION	
	OIOO -> IVIL	ENDED	
10	$USS \to ME$		[Incoming call alert]
11	$USER \to ME$	User shall accept the incoming call	
12	$ME \to USS$	CONNECT 1.3.2	
13	$ME \to UICC$	No ENVELOPE: EVENT	
		DOWNLOAD (call connected) sent	
14	$USS \to ME$	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:

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
		1.4.1	
2	L / 0.00	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[Call Connected Event]
		EVENT LIST 1.4.1	
	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	
		EVENT LIST 1.4.1	
4	$UICC \to ME$	PROACTIVE UICC SESSION	
_		ENDED	
5		Power off ME	
6		Power on ME	
7	$USS \to ME$	SETUP 1.4.1	[Incoming call alert]
8			
9	$ME \to USS$	CONNECT 1.4.1	
10	$ME \rightarrow UICC$	No ENVELOPE: EVENT	
		DOWNLOAD (call connected) sent	
11	$USS \to ME$	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 Sequence1.4 (TIMER MANAGEMENT, try to get the current value of a timer which is not started: action in contradiction with the current timer state)

See ETSI TS 102 384 [26] in subclause 27.22.4.21.1.4.2, Expected Sequence 1.4.

# Expected Sequence1.5 (TIMER MANAGEMENT, try to deactivate a timer which is not started: action in contradiction with the current timer state)

See ETSI TS 102 384 [26] in 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP IDLE MODE	
		TEXT 1.1.1	
2		FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	["Idle Mode Text"]
		IDLE MODE TEXT 1.1.1	
4	$ME \rightarrow UICC$		[Command performed successfully]
_		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"	[D: 1 : 1: 4 OMO]
7	USS → ME	SMS PP 1.4.1	[Display immediate SMS]
8	ME → USER	Display "Test Message"	
9	$USER \to ME$	Clear display and select idle screen	
10	$ME \rightarrow USER$	Display "Idle Mode Text"	
11	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: DISPLAY TEXT 1.4.1	
12	$ME \rightarrow UICC$	FETCH	
13	$UICC \to ME$	PROACTIVE COMMAND:	[Normal priority, wait for user to clear
		DISPLAY TEXT 1.4.1	message, unpacked, 8 bit data]
14	$ME \rightarrow USER$	Display "Toolkit Test 1"	
15	$USER \to ME$	Clear Message	
16	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully]
47	ME HOED	DISPLAY TEXT 1.4.1	
17	ME → USER		
18	$UICC \to ME$	PROACTIVE COMMAND PENDING: PLAY TONE 1.4.1	
19	ME → UICC	FETCH	
20	$VICC \rightarrow ME$	PROACTIVE COMMAND: PLAY	
20	OICC → IVIE	TONE 1.4.1	
21	ME → USER	Display "Dial Tone"	
	IVIL -> OOLK	Play a standard supervisory dial	
		tone through the external ringer for	
		a duration of 5 s	
22	$ME \rightarrow UICC$	TERMINAL RESPONSE: PLAY	[Command performed successfully]
		TONE 1.4.1	
23	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
24	$ME \rightarrow USER$	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
	В9	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:

# PROACTIVE COMMAND: PLAY TONE 1.4.1

Logically:

Command details

Command number:

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP IDLE MODE	
		TEXT 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	["Idle Mode Text"]
		IDLE MODE TEXT 1.1.1	
4	$ME \rightarrow UICC$		[command performed successfully]
		IDLE MODE TEXT 1.1.1	
5	$USER \to ME$	Select idle screen	Only if idle screen not already available
6		Display "Idle Mode Text"	
7	$USER \to ME$	Power off ME	
8	$ME \Leftrightarrow UICC$	3G Session TERMINATION	
		PROCEDURE	
9	$USER \to ME$	Power on ME	
10	$ME \Leftrightarrow UICC$	3G Session ACTIVATION	
		PROCEDURE	
11		USIM INITIALIZATION	
12	$USER \to ME$	Select idle screen	Only if idle screen not already available
13	$ME \rightarrow USER$	Display idle screen / "Idle Mode	
		Text" not to be displayed	

# **Expected Sequence 1.6 (SET UP IDLE MODE TEXT, REFRESH with USIM Initialization)**

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	[Idle Mode Text]
		PENDING: SET UP IDLE MODE	
		TEXT 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
		IDLE MODE TEXT 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	
		IDLE MODE TEXT 1.1.1	
5		Select idle screen	Only if idle screen not already available
6	$ME \rightarrow USER$	Display "Idle Mode Text"	
7	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: REFRESH 1.6.1	
8	$ME \rightarrow UICC$	FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND:	[USIM Initialization]
		REFRESH 1.6.1	
10	、, 0.00	USIM INITIALIZATION	
11	$USER \to ME$	Select idle screen	Only if idle screen not already available
12	$ME \rightarrow USER$	Display idle screen / "Idle Mode	
		Text" not to be displayed	
13	$ME \rightarrow UICC$	TERMINAL RESPONSE:	[Command performed successfully]
		REFRESH 1.6.1A	[Command performed successfully with
		or	additional files read]
		TERMINAL RESPONSE:	
		REFRESH 1.6.1B	
14	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	

# PROACTIVE COMMAND: REFRESH 1.6.1

Logically:

Command details

Command number: 1

Command type: REFRESH

Command qualifier: USIM Initialization

Device identities

Source device: UICC Destination device: ME

Coding:

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

TERMINAL RESPONSE: REFRESH 1.6.1A

Logically:

Command details

Command number: 1

Command type: REFRESH

Command qualifier: USIM Initialization

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	01	03	82	02	82	81	83	01	00
DEIX IEV.	0.	00	0.		00	02	02	02	0.	00	0 1	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, than the ME shall reject the command with general result "Command data not understood by ME".

27.22.4.22.2.4 Method of test

27.22.4.22.2.4.1 Initial conditions

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

The elementary files are coded as USIM Application Toolkit default.

Prior to this test the ME shall have been powered on, performed the PROFILE DOWNLOAD procedure and be in update idle mode on the System Simulator.

27.22.4.22.2.4.2 Procedure

# Expected Sequence 2.1A (SET UP IDLE MODE TEXT, Icon is self-explanatory, successful)

See ETSI TS 102 384 [26] in 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 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 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, 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 27.22.4.22.4.4.2, 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[no alpha identifier, request IMSI]
		AT COMMAND 1.1.1	
4	$ME (\rightarrow User)$	The ME may give information to	
		the user concerning what is	
		happening	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 1.1.1	Response containing IMSI]

#### PROACTIVE COMMAND: RUN AT COMMAND 1.1.1

### Logically:

Command details

Command number:

Command type: RUN AT COMMAND

Command qualifier: "00"

Device identities

Source device: UICC Destination device: ME

AT Command

AT Command string: "AT+CIMI<CR>"

Coding:

BER-TLV:	D0	13	81	03	01	34	00	82	02	81	82	A8
	08	41	54	2B	43	49	4D	49	0D			

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: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
-	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

# Expected Sequence 1.2 (RUN AT COMMAND, null data alpha identifier presented, request IMSI)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		1.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[null data alpha identifier, request IMSI]
		AT COMMAND 1.2.1	
4	ME	The ME should not give any	
		information to user on the fact	
		that the ME is performing an AT	
		command	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN	[Command performed successfully, AT
		AT COMMAND 1.1.1	Response containing IMSI]

PROACTIVE COMMAND: RUN AT COMMAND 1.2.1

Logically:

Command details

Command number:

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<CR>"

# Coding:

BER-TLV:	D0	15	81	03	01	34	00	82	02	81	82	85
	00	A8	08	41	54	2B	43	49	4D	49	0D	

# Expected Sequence 1.3 (RUN AT COMMAND, alpha identifier presented, request IMSI)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		1.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[alpha identifier, request IMSI]
		AT COMMAND 1.3.1	
4	$ME \to USER$	Display "Run AT Command"	
5	$ME \to UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
			Response containing IMSI]

#### PROACTIVE COMMAND: RUN AT COMMAND 1.3.1

Logically:

Command details

Command number:

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<CR>"

# Coding:

BER-TLV:	D0	23	81	03	01	34	00	82	02	81	82	<sup>8</sup> 5
	0E	52	75	6E	20	41	54	20	43	6F	6D	6D
	61	6E	64	A8	80	41	54	2B	43	49	4D	49
	0D											

# 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		2.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[BASIC-ICON, self-explanatory, request IMSI]
		AT COMMAND 2.1.1	
4	$ME \rightarrow USER$	Display BASIC ICON without the	
		alpha identifier	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 2.1.1A	response containing IMSI]

#### PROACTIVE COMMAND: RUN AT COMMAND 2.1.1

## Logically:

Command details

Command number:

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<CR>"

Icon identifier:

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

BER-TLV:	D0	23	81	03	01	34	00	82	02	81	82	85
	0A	42	61	73	69	63	20	49	63	6F	6E	A8
	08	41	54	2B	43	49	4D	49	0D	9E	02	00
	01											

TERMINAL RESPONSE: RUN AT COMMAND 2.1.1A

Logically:

Command details

Command number:

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: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

## 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		2.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[BASIC-ICON, self-explanatory, request IMSI]
		AT COMMAND 2.1.1	
4	$ME \rightarrow USER$	Display "Basic Icon" without the	
		BASIC-ICON	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed but requested icon
		COMMAND 2.1.1B	could not be displayed, AT response
			containing IMSI]

TERMINAL RESPONSE: RUN AT COMMAND 2.1.1B

Logically:

Command details

Command number: 1

Command type: RUN AT COMMAND

Command qualifier: "00"

Device identities

Source device: ME
Destination device: UICC

Result

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

AT Response

AT Response string: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	04
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		2.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[COLOUR-ICON, self-explanatory, request
		AT COMMAND 2.2.1	IMSI]
4	$ME \rightarrow USER$	Display COLOUR-ICON without	
		the alpha identifier	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 2.1.1A	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<CR>"

Icon identifier:

Icon qualifier: icon is self-explanatory Icon identifier: record 2 in  $EF_{(IMG)}$ 

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	A8
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6E
	A8	08	41	54	2B	43	49	4D	49	0D	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		2.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[COLOUR-ICON, self-explanatory, request
		AT COMMAND 2.2.1	IMSI]
4	$ME \rightarrow USER$	Display "Colour Icon" without the	
		COLOUR-ICON	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed but requested icon
		COMMAND 2.1.1B	could not be displayed, AT response
			containing IMSI]

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		2.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[BASIC-ICON, non self-explanatory, request
		AT COMMAND 2.3.1	IMSI]
4	$ME \rightarrow USER$	Display "Basic Icon" and BASIC-	
		ICON	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 2.1.1A	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<CR>"

Icon identifier

Icon qualifier: icon is non self-explanatory

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

BER-TLV:	D0	23	81	03	01	34	00	82	02	81	82	85
·	0A	42	61	73	69	63	20	49	63	6F	6E	A8
	08	41	54	2B	43	49	4D	49	0D	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		2.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[BASIC-ICON, non self-explanatory, request
		AT COMMAND 2.3.1	IMSI]
4	$ME \rightarrow USER$	Display "Basic Icon" without	
		BASIC-ICON	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed but requested icon
		COMMAND 2.1.1B	could not be displayed, AT response
			containing IMSI]

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		2.4.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[COLOUR-ICON, non self-explanatory,
		AT COMMAND 2.4.1	request IMSI]
4	$ME \rightarrow USER$		
		COLOUR-ICON	
5	$ME \rightarrow UICC$		[Command performed successfully, AT
		COMMAND 2.1.1A	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<CR>"

Icon identifier:

Icon qualifier: icon is self-explanatory
Icon identifier: record 2 in EF<sub>(IMG)</sub>

BER-TLV:	D0	24	81	03	01	34	00	82	02	81	82	85
	0B	43	6F	6C	6F	75	72	20	49	63	6F	6E
	A8	08	41	54	2B	43	49	4D	49	0D	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		2.4.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	[COLOUR-ICON, non self-explanatory,
		AT COMMAND 2.4.1	request IMSI]
4	$ME \to USER$	Display "Colour Icon" without	
		COLOUR-ICON	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed but requested icon
		COMMAND 2.1.1B	could not be displayed, AT response
			containing IMSI]

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

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

#### 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<CR>"

Icon identifier

Icon qualifier: icon is non self-explanatory

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

Coding:

BER-TLV:	D0	17	81	03	01	34	00	82	02	81	82	A8
	80	41	54	2B	43	49	4D	49	0D	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.

## 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		3.1.1	
2	/ 0.00	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	
		AT COMMAND 3.1.1	
4	$ME \ (\to$	Display "Run AT Command 1"	[alpha identifier is displayed with left
	USER)		alignment, request IMSI]
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
_		COMMAND 3.1.1	Response containing IMSI]
6	$UICC \to ME$	PROACTIVE UICC SESSION	
_		ENDED	
7	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND 13.1.2	
8	ME → UICC	FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND: RUN	
9	OICC → IVIE	AT COMMAND 3.1.2	
10	ME ( $ ightarrow$	Display "Run AT Command 2"	Message shall be formatted without left
10	USER)	Display Rull AT Collination 2	alignment, request IMSI. Remark: If left
	USEK)		alignment is the ME's default alignment as
			declared in table A.2/16, no alignment change
			will take place]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 3.1.1	Response containing IMSI]
12	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	

## PROACTIVE 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<CR>"

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

BER-TLV:	D0	2B	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	0D	D0	04	00	10	00	B4			

#### PROACTIVE 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<CR>"

Coding:

BER-TLV:	D0	25	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	08	41	54	2B	43	49
	4D	49	0D									

#### 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: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		3.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN AT COMMAND 3.2.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with center alignment, request IMSI]
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT COMMAND 3.2.1	[Command performed successfully, AT Response containing IMSI]
6	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	, ,
7	$UICC \to ME$	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.2.2	
8	$ME \to UICC$	FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND: RUN AT COMMAND 3.2.2	
10	ME (→ 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	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT COMMAND 3.2.1	[Command performed successfully, AT Response containing IMSI]
12	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	. ,

PROACTIVE COMMAND: RUN AT COMMAND 3.2.1

Logically:

Command details

Command number:

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<CR>"

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	0D	D04	04	00	10	01	B4			

#### PROACTIVE COMMAND: RUN AT COMMAND 3.2.2

## Logically:

Command details

Command number:

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<CR>"

#### Coding:

BER-TLV:	D0	25	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	08	41	54	2B	43	49
	4D	49	0D									

## 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: <CR><LF>IMSI<CR><LF><CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
-	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

#### 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.

## 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		3.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	
		AT COMMAND 3.3.1	
4	$ME (\rightarrow USER)$	Display "Run AT Command 1"	[alpha identifier is displayed with right
			alignment, request IMSI]
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN	[Command performed successfully, AT
_		AT COMMAND 3.3.1	Response containing IMSI]
6	$UICC \to ME$	PROACTIVE UICC SESSION	
_		ENDED	
7	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		3.3.2	
8	ME → UICC	FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND: RUN	
40	/ LIGED)	AT COMMAND 3.3.2	FR.4
10	$ME (\rightarrow USER)$	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
11	ME → UICC	TERMINAL RESPONSE: RUN	will take place] [Command performed successfully, AT
''	INIE → UICC	AT COMMAND 3.3.1	Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION	Incesponse containing infor
12		ENDED	
		ENDED	

## PROACTIVE 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<CR>"

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

BER-TLV:	D0	2B	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	0D	D0	04	00	10	02	B4			

#### PROACTIVE 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<CR>"

## Coding:

BER-TLV:	D0	25	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	08	41	54	2B	43	49
	4D	49	0D									

#### TERMINAL RESPONSE: RUN AT COMMAND 3.3.1

Logically:

Command details

Command number:

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: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

## Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

## 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.

## 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)

PENDING: RUN AT COMMAND 3.4.1  PETCH PROACTIVE COMMAND: RUN AT COMMAND 3.4.1    ME (→ USER)	Step	Direction	MESSAGE / Action	Comments
3.4.1    2	1	$UICC \to ME$		
2 ME → UICC 3 UICC → ME 4 ME (→ USER) 5 ME → UICC 6 UICC → ME 7 UICC → ME 7 UICC → ME 8 ME → UICC 9 UICC → ME 10 ME (→ USER) 11 ME (→ USER) 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 ME → UICC 17 UICC → ME 18 ME → UICC 19 UICC → ME 19 ME (→ USER) 11 ME (→ USER) 11 ME → UICC 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 ME → UICC 17 UICC → ME 18 ME → UICC 19 UICC → ME 19 ME (→ USER) 11 ME → UICC 11 UICC → ME 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 ME (→ UICC → ME 17 UICC → ME 18 ME → UICC 19 UICC → ME 19 ME (→ USER) 11 ME → UICC 11 UICC → ME 11 ME → UICC 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 PROACTIVE COMMAND 17 TERMINAL RESPONSE: RUN AT COMMAND 2.4.1 2.4 ME → UICC 2.5 ME 2.6 ME → UICC → ME 2.6 ME → UICC → ME 2.6 ME → UICC → ME 2.7 ME → UICC → ME 2.8 ME → UICC → ME 2.8 ME → UICC → ME 2.9 ME → UICC → ME 2.9 ME → UICC → ME 2.0 ME → UICC → ME 2				
3 UICC → ME  ME (→ USER)  5 ME → UICC  TERMINAL RESPONSE: RUN AT COMMAND 3.4.1  6 UICC → ME  7 UICC → ME  8 ME → UICC  9 UICC → ME  10 ME (→ USER)  11 ME → UICC  TERMINAL RESPONSE: RUN AT COMMAND 3.4.2  12 UICC → ME  13 UICC → ME  14 ME → UICC  15 UICC → ME  PROACTIVE COMMAND  ROACTIVE COMMAND: RUN AT COMMAND 3.4.1  PROACTIVE COMMAND: RUN AT COMMAND 3.4.2  INTERMINAL RESPONSE: RUN AT COMMAND: RUN AT COMMAND 3.4.2  INTERMINAL RESPONSE: RUN AT COMMAND 3.4.1  INTERMINAL RESPONSE: RUN AT COMMAND 3.4.1  PROACTIVE UICC SESSION ENDED  INTERMINAL RESPONSE: RUN AT COMMAND 3.4.1  PROACTIVE UICC SESSION ENDED  INTERMINAL RESPONSE: RUN AT COMMAND 3.4.1  PROACTIVE UICC SESSION ENDED  INTERMINAL RESPONSE: RUN AT COMMAND 3.4.1  PROACTIVE COMMAND AT COMMAND 3.4.1  PROACTIVE COMMAND AT COMMAND 3.4.1  PROACTIVE COMMAND AT COMMAND 3.4.1  PROACTIVE COMMAND AT COMMAND 3.4.1  PROACTIVE COMMAND AT COMMAND 3.4.1  PROACTIVE COMMAND RUN  INTERMINAL RESPONSE: RUN AT COMMAND 3.4.1  PROACTIVE COMMAND RUN  PROACTIVE COMMAND RUN  INTERMINAL RESPONSE: RUN AT COMMAND 3.4.1  PROACTIVE COMMAND RUN		ME 11100		
AT COMMAND 3.4.1 Display "Run AT Command 1"    ME (→ USER)				
4 ME (→ USER)  5 ME → UICC  6 UICC → ME  7 UICC → ME  7 UICC → ME  8 ME → UICC  9 UICC → ME  10 ME (→ USER)  11 ME → UICC  12 UICC → ME  13 UICC → ME  14 ME → UICC  15 UICC → ME  16 ME → UICC  17 UICC → ME  18 ME → UICC  19 UICC → ME  10 ME (→ USER)  11 ME → UICC  12 UICC → ME  13 UICC → ME  14 ME → UICC  15 UICC → ME  15 Display "Run AT Command 1"  TERMINAL RESPONSE: RUN AT Command 2"  Size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]  [alpha identifier is displayed with normal for size, request IMSI]	3	UICC → ME		
USER)  ME → UICC  ME → UICC → ME  TERMINAL RESPONSE: RUN AT COMMAND 3.4.1  PROACTIVE UICC SESSION ENDED  TUICC → ME  PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.2  ME → UICC UICC → ME  ME (→ USER)  ME (→ USER)  ME → UICC  USER)  ME → UICC  UICC → ME  TERMINAL RESPONSE: RUN AT Response containing IMSI]  ME (→ UICC → ME  TERMINAL RESPONSE: RUN AT Response containing IMSI]  ME (→ USER)  ME → UICC  TERMINAL RESPONSE: RUN AT COMMAND 3.4.2  [alpha identifier is displayed with normal for size, request IMSI]  [Command performed successfully, AT Response containing IMSI]  [Command performed successfully, AT Response containing IMSI]	4	ME (_		lalpha identifier is displayed with large font
5 ME → UICC COMMAND 3.4.1 6 UICC → ME 7 UICC → ME 7 UICC → ME 8 ME → UICC 9 UICC → ME 10 ME (→ USER) 11 ME → UICC 15 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 UICC → ME 17 UICC → ME 18 ME → UICC 18 ME (→ USER) 19 UICC → ME 10 ME (→ USER) 11 ME → UICC 15 UICC → ME 16 UICC → ME 17 UICC → ME 18 ME → UICC 18 (Command performed successfully, AT Response containing IMSI] 19 (Command performed successfully, AT Response containing IMSI] 10 ME (→ USER) 11 (Command performed successfully, AT COMMAND 3.4.2 12 (IICC → ME PROACTIVE UICC SESSION ENDED PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND 3.4.1 14 ME → UICC 15 (VICC → ME PROACTIVE COMMAND: RUN) 16 (Command performed successfully, AT Response containing IMSI] 17 (IICC → ME PROACTIVE COMMAND 3.4.1 18 (IICC → ME PROACTIVE COMMAND 3.4.1 19 (IICC → ME PROACTIVE COMMAND 3.4.1 10 (IICC → ME PROACTIVE COMMAND 3.4.1 11 (IICC → ME PROACTIVE COMMAND 3.4.1 12 (IICC → ME PROACTIVE COMMAND 3.4.1 13 (IICC → ME PROACTIVE COMMAND 3.4.1 14 (IICC → ME PROACTIVE COMMAND 3.4.1 15 (IICC → ME PROACTIVE COMMAND 3.4.1 16 (IICC → ME PROACTIVE COMMAND 3.4.1 17 (IICC → ME PROACTIVE COMMAND 3.4.1 18 (IICC → ME PROACTIVE COMMAND 3.4.1 19 (IICC → ME PROACTIVE COMMAND 3.4.1 10 (IICC → ME PROACTIVE COMMAND 3.4.1 11 (IICC → ME PROACTIVE COMMAND 3.4.1 12 (IICC → ME PROACTIVE COMMAND 3.4.1 13 (IICC → ME PROACTIVE COMMAND 3.4.1 14 (IICC → ME PROACTIVE COMMAND 3.4.1 15 (IICC → ME PROACTIVE COMMAND 3.4.1 16 (IICC → ME PROACTIVE COMMAND 3.4.1 17 (IICC → ME PROACTIVE COMMAND 3.4.1 18 (IICC → ME PROACTIVE COMMAND 3.4.1 19 (IICC → ME PROACTIVE COMMAND 3.4.1 19 (IICC → ME PROACTIVE COMMAND 3.4.1 10 (IICC → ME PROACTIVE COMMAND 3.4.1 11 (IICC → ME PROACTIVE COMMAND 3.4.1 12 (IICC → ME PROACTIVE COMMAND 3.4.1 13 (IICC → ME PROACTIVE COMMAND 3.4.1 14 (IICC → ME PROACTIVE COMMAND 3.4.1 15 (IICC → ME PROACTIVE COMMAND 3.4.1 16 (IICC → ME PROACTIVE COMMAND 3.4.1 17 (IICC → ME PROACTIVE COMMAND 3.4.1 18 (IICC → ME PROACTIVE COMMAND 3.4.1 19 (IICC → ME PROACTIVE COMMAND 3.4.1 10 (IICC → ME PROACTIVE COMMAN	-		Display Rail Al Golfmana 1	
COMMAND 3.4.1  PROACTIVE UICC SESSION ENDED  PROACTIVE COMMAND 3.4.2  8 ME → UICC 9 UICC → ME 10 ME (→ USER)  11 ME → UICC 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 UICC → ME 17 UICC → ME 18 ME → UICC 19 UICC → ME 19 UICC → ME 10 ME (→ USER)  11 ME → UICC 11 PROACTIVE COMMAND ENDED 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 COMMAND 3.4.1  PROACTIVE UICC SESSION ENDED 17 PROACTIVE COMMAND PROACTIVE	5	•	TERMINAL RESPONSE: RUN AT	
To see the second state of the second state o			COMMAND 3.4.1	
7 UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.2  8 ME → UICC 9 UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.4.2  10 ME (→ USER)  11 ME → UICC 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.4.1 PROACTIVE UICC SESSION ENDED PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND 3.4.1 FETCH PROACTIVE COMMAND: RUN  PROACTIVE COMMAND A.1 FETCH PROACTIVE COMMAND: RUN  PROACTIVE COMMAND S.4.1 FETCH PROACTIVE COMMAND: RUN	6	$UICC \to ME$	PROACTIVE UICC SESSION	
PENDING: RUN AT COMMAND 3.4.2  8  ME → UICC 9  UICC → ME 10  ME (→ USER) 11  ME → UICC 12  UICC → ME 13  UICC → ME 14  ME → UICC 15  UICC → ME 15  UICC → ME 16  PROACTIVE COMMAND: RUN AT COMMAND 3.4.2 Display "Run AT Command 2" [alpha identifier is displayed with normal for size, request IMSI] [Command performed successfully, AT Response containing IMSI] [Command performed successfully, AT Response containing IMSI]  16  ME → UICC 17  ME 18  ME → UICC 19  UICC → ME 19  VICC → ME 19  VICC → ME 10  VICC → ME 11  VICC → ME 12  VICC → ME 13  VICC → ME 14  ME → UICC 15  VICC → ME 15  VICC → ME 16  VICC → ME 17  VICC → ME 18  VICC → ME 19  VICC → ME 19  VICC → ME 19  VICC → ME 10  VICC → ME 11  VICC → ME 11  VICC → ME 12  VICC → ME 13  VICC → ME 14  VICC → ME 15  VICC → ME 16  VICC → ME 17  VICC → ME 18  VICC → ME 19  VICC → ME 19  VICC → ME 10  VICC → ME 11  VICC → ME 11  VICC → ME 12  VICC → ME 13  VICC → ME 14  VICC → ME 15  VICC → ME 16  VICC → ME 17  VICC → ME 17  VICC → ME 18  VICC → ME 19  VICC → ME 19  VICC → ME 10  VICC → ME 11  VICC → ME 11  VICC → ME 12  VICC → ME 13  VICC → ME 14  VICC → ME 15  VICC → ME 16  VICC → ME 17  VICC → ME 17  VICC → ME 18  VICC → ME 19  VICC → ME 19  VICC → ME 19  VICC → ME 19  VICC → ME 10  VICC → ME 10  VICC → ME 11  VICC → ME 11  VICC → ME 12  VICC → ME 13  VICC → ME 14  VICC → ME 15  VICC → ME 16  VICC → ME 17  VICC → ME 17  VICC → ME 18  VICC → ME 19  VICC → ME 19  VICC → ME 10  VICC → ME 10  VICC → ME 10  VICC → ME 10  VICC → ME 11  VICC → ME 11  VICC → ME 12  VICC → ME 12  VICC → ME 13  VICC → ME 14  VICC → ME 15  VICC → ME 16  VICC → ME 17  VICC → ME 17  VICC → ME 18  VICC → ME 19  VICC → ME 19  VICC → ME 19  VICC → ME 10  VICC → ME 10  VICC → ME 10  VICC → ME 11  VICC → ME 11  VICC → ME 12  VICC → ME 12  VICC → ME 13  VICC → ME 14  VICC → ME 15  VICC → ME 16  VICC → ME 17  VICC → ME 17  VICC → ME 17  VICC → ME 18  VICC → ME 18  VICC → ME 19  VICC → ME 19  VICC → ME 10  VICC → ME 10  VICC → ME 11  VICC → ME 11  VICC → ME 12  VICC → ME 12  VICC → ME 12  VICC → ME 13  VICC				
<ul> <li>8 ME → UICC</li> <li>9 UICC → ME</li> <li>10 ME (→ USER)</li> <li>11 ME → UICC</li> <li>12 UICC → ME</li> <li>13 UICC → ME</li> <li>14 ME → UICC</li> <li>15 UICC → ME</li> <li>16 ME → UICC</li> <li>17 ME → UICC</li> <li>18 ME → UICC</li> <li>19 ME → UICC</li> <li>10 ME → UICC</li> <li>11 ME → UICC</li> <li>12 UICC → ME</li> <li>13 UICC → ME</li> <li>14 ME → UICC</li> <li>15 UICC → ME</li> <li>16 ME → UICC</li> <li>17 ME → UICC</li> <li>18 ME → UICC</li> <li>19 ME → UICC</li> <li>10 ME → UICC</li> <li>11 ME → UICC</li> <li>12 ME → UICC</li> <li>13 ME → UICC</li> <li>14 ME → UICC</li> <li>15 UICC → ME</li> <li>16 ME → UICC</li> <li>17 ME → UICC</li> <li>18 ME → UICC</li> <li>19 ME → UICC</li> <li>10 ME → UICC</li> <li>11 ME → UICC</li> <li>12 ME → UICC</li> <li>13 ME → UICC</li> <li>14 ME → UICC</li> <li>15 UICC → ME</li> <li>16 ME → UICC</li> <li>17 ME → UICC</li> <li>18 ME → UICC</li> <li>19 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>11 ME → UICC</li> <li>12 ME → UICC</li> <li>13 ME → UICC</li> <li>14 ME → UICC</li> <li>15 ME → UICC</li> <li>16 ME → UICC</li> <li>17 ME → UICC</li> <li>18 ME → UICC</li> <li>19 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>11 ME → UICC</li> <li>12 ME → UICC</li> <li>13 ME → UICC</li> <li>14 ME → UICC</li> <li>16 ME → UICC</li> <li>17 ME → UICC</li> <li>18 ME → UICC</li> <li>19 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 ME → UICC</li> <li>10 M</li></ul>	7	$UICC \to ME$		
8 ME → UICC 9 UICC → ME 10 ME (→ USER) 11 ME → UICC 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 ME → UICC 17 UICC → ME 18 ME → UICC 19 UICC → ME 19 PROACTIVE COMMAND: RUN AT COMMAND 3.4.2 Display "Run AT Command 2" [alpha identifier is displayed with normal for size, request IMSI] [Command performed successfully, AT Response containing IMSI] [Command performed successfully, AT Response containing IMSI]  10 ME → UICC 11 ME → UICC 11 ME → UICC 12 ME 13 ME → UICC 15 PROACTIVE COMMAND: RUN				
9 UICC → ME  10 ME (→ USER)  11 ME → UICC  12 UICC → ME  13 UICC → ME  14 ME → UICC  15 UICC → ME  PROACTIVE COMMAND: RUN AT Command 2" [alpha identifier is displayed with normal for size, request IMSI]  [Command performed successfully, AT Response containing IMSI]  [Command performed successfully, AT Response containing IMSI]  [Command performed successfully, AT Response containing IMSI]  [A ME → UICC → ME  PROACTIVE COMMAND	0	ME LUCC		
AT COMMAND 3.4.2    10   ME (→ USER)   Display "Run AT Command 2"   [alpha identifier is displayed with normal for size, request IMSI]   [Command performed successfully, AT COMMAND 3.4.1   PROACTIVE UICC SESSION ENDED   PROACTIVE COMMAND 9ENDING: RUN AT COMMAND 3.4.1   ME → UICC 15   UICC → ME   PROACTIVE COMMAND: RUN		_		
10 ME (→ USER)  11 ME → UICC  12 UICC → ME  13 UICC → ME  14 ME → UICC  15 UICC → ME  16 Display "Run AT Command 2"  Display "Run AT Command 2"  TERMINAL RESPONSE: RUN AT COMMAND AND PENDING: RUN AT COMMAND  Size, request IMSI]  [Command performed successfully, AT Response containing IMSI]  [Command performed successfully, AT Response containing IMSI]  [A ME → UICC → ME PROACTIVE COMMAND AND AND AND AND AND AND AND AND AND		OICC → IVIE		
USER)  11 ME → UICC  12 UICC → ME  13 UICC → ME  14 ME → UICC  15 UICC → ME  17 ME → UICC  18 ME → UICC  19 PROACTIVE COMMAND  PROACTIVE COMMAND  PROACTIVE COMMAND  PROACTIVE COMMAND  PROACTIVE COMMAND  PROACTIVE COMMAND  PROACTIVE COMMAND  3.4.1  FETCH  PROACTIVE COMMAND: RUN	10	$ME \left(  ightarrow  ight.$		[alpha identifier is displayed with normal font
<ul> <li>ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.4.1 [Command performed successfully, AT Response containing IMSI]</li> <li>UICC → ME PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.1</li> <li>ME → UICC → ME PROACTIVE COMMAND: RUN</li> </ul>				
12 UICC → ME PROACTIVE UICC SESSION ENDED  13 UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND  3.4.1  14 ME → UICC → ME PROACTIVE COMMAND: RUN	11	,	TERMINAL RESPONSE: RUN AT	
13 UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.1  14 ME → UICC 15 UICC → ME PROACTIVE COMMAND: RUN				Response containing IMSI]
13 UICC $\rightarrow$ ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.4.1  14 ME $\rightarrow$ UICC FETCH PROACTIVE COMMAND: RUN	12	$UICC \to ME$		
PENDING: RUN AT COMMAND  3.4.1  14 ME $\rightarrow$ UICC  15 UICC $\rightarrow$ ME PROACTIVE COMMAND: RUN	40			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	13	$DICC \to ME$		
14 ME → UICC FETCH 15 UICC → ME PROACTIVE COMMAND: RUN				
15 UICC → ME PROACTIVE COMMAND: RUN	14	$MF \rightarrow UICC$		
		0.00 /	AT COMMAND 3.4.1	
	16	$ME \left(  ightarrow  ight.$	Display "Run AT Command 1"	[alpha identifier is displayed with large font
USER) size, request IMSI]		,		
17 ME → UICC TERMINAL RESPONSE: RUN AT [Command performed successfully, AT	17	$ME \rightarrow UICC$		
COMMAND 3.4.1 Response containing IMSI]	40			Response containing IMSI]
18 UICC → ME PROACTIVE UICC SESSION ENDED	18	UICC → ME		
19 UICC → ME PROACTIVE COMMAND	19	UICC → ME		
PENDING: RUN AT COMMAND		OIOO / IVIL		
3.4.3				
20 ME $\rightarrow$ UICC FETCH	20	$ME \to UICC$	FETCH	
21 UICC → ME PROACTIVE COMMAND: RUN	21	$UICC \to ME$		
AT COMMAND 3.4.3				
	22		Display "Run AT Command 3"	[alpha identifier is displayed with normal font
USER)   size, request IMSI]  23   ME → UICC   TERMINAL RESPONSE: RUN AT   [Command performed successfully, AT	22	,	TEDMINIAL DESDONSE, DUN AT	
23 ME → UICC TERMINAL RESPONSE: RUN AT [Command performed successfully, AT COMMAND 3.4.1 Response containing IMSI]	23	IVIE → UICC		
24 UICC $\rightarrow$ ME PROACTIVE UICC SESSION	24	$UICC \rightarrow MF$		
ENDED	-	CIOO / IVIL		

## PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	04	B4			

## PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	00	B4			

#### PROACTIVE COMMAND: RUN AT COMMAND 3.4.3

## Logically:

Command details

Command number:

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<CR>"

Coding:

BER-TLV:	D0	25	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	08	41	54	2B	43	49
	4D	49	0D									

TERMINAL RESPONSE: RUN AT COMMAND 3.4.1

Logically:

Command details

Command number:

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: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

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.

## 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
	.45	3.5.1	
2	ME → UICC	FETCH PROACTIVE COMMAND: RUN	
3	$UICC \to ME$	AT COMMAND 3.5.1	
4	ME (→	Display "Run AT Command 1"	[alpha identifier is displayed with small font
	USER)	Siepiay Train 711 Command 1	size, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 3.5.1	Response containing IMSI]
6	$UICC \to ME$	PROACTIVE UICC SESSION	
_		ENDED	
7	$UICC \to ME$	PROACTIVE COMMAND PENDING: RUN AT COMMAND	
		3.5.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN	
		AT COMMAND 3.5.2	
10	$ME \left(  ightarrow  ight.$	Display "Run AT Command 2"	[alpha identifier is displayed with normal font
	USER)	TERMINAL RESPONDE DUNGAT	size, request IMSI]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	[Command performed successfully, AT Response containing IMSI]
12	$UICC \to ME$	PROACTIVE UICC SESSION	Response containing initial
12	OICC → IVIL	ENDED	
13	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		3.5.1	
14	ME → UICC	FETCH	
15	$UICC \to ME$	PROACTIVE COMMAND: RUN AT COMMAND 3.5.1	
16	ME (→	Display "Run AT Command 1"	[alpha identifier is displayed with small font
	USER)	Bioplay Train 711 Command 1	size, request IMSI]
17	ME → UICC	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 3.5.1	Response containing IMSI]
18	$UICC \to ME$	PROACTIVE UICC SESSION	
40		ENDED	
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: RUN AT COMMAND	
		3.5.3	
20	ME → UICC	FETCH	
21	UICC → ME	PROACTIVE COMMAND: RUN	
		AT COMMAND 3.5.3	
22	$ME \left(  ightarrow  ight.$	Display "Run AT Command 3"	[alpha identifier is displayed with normal font
00	USER)	TERMINAL RESPONSE BUT AT	size, request IMSI]
23	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT COMMAND 3.5.1	[Command performed successfully, AT Response containing IMSI]
24	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	

## PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	80	B4			

## PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	00	B4			

#### PROACTIVE COMMAND: RUN AT COMMAND 3.5.3

## Logically:

Command details

Command number:

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<CR>"

Coding:

BER-TLV:	D0	25	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	08	41	54	2B	43	49
	4D	49	0D									

TERMINAL RESPONSE: RUN AT COMMAND 3.5.1

Logically:

Command details

Command number:

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: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

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.

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
	11100	3.6.1	
2	ME → UICC	FETCH PROACTIVE COMMAND: RUN	
3	$UICC \to ME$	AT COMMAND 3.6.1	
4	ME (→	Display "Run AT Command 1"	[alpha identifier is displayed with bold on,
	USER)	Siepiay Train 711 Command 1	request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 3.6.1	Response containing IMSI]
6	$UICC \to ME$	PROACTIVE UICC SESSION	
_		ENDED	
7	$UICC \to ME$	PROACTIVE COMMAND PENDING: RUN AT COMMAND	
		3.6.2	
8	ME → UICC	FETCH	
9	UICC → ME	PROACTIVE COMMAND: RUN	
		AT COMMAND 3.6.2	
10	$ME \left(  ightarrow  ight.$	Display "Run AT Command 2"	[alpha identifier is displayed with bold off,
	USER)	TERMINAL RESPONDE DUNGAT	request IMSI]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	[Command performed successfully, AT Response containing IMSI]
12	UICC → ME	PROACTIVE UICC SESSION	Response containing initial
12	OICC - IVIL	ENDED	
13	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		3.6.1	
14	ME → UICC	FETCH	
15	$UICC \to ME$	PROACTIVE COMMAND: RUN AT COMMAND 3.6.1	
16	ME (→	Display "Run AT Command 1"	[alpha identifier is displayed with bold on,
	USER)	Display Marry Command	request IMSI]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 3.6.1	Response containing IMSI]
18	$UICC \to ME$	PROACTIVE UICC SESSION	
19	LUCO ME	PROACTIVE COMMAND	
19	$UICC \to ME$	PENDING: RUN AT COMMAND	
		3.6.3	
20	$ME \rightarrow UICC$	FETCH	
21	$UICC \to ME$	PROACTIVE COMMAND: RUN	
_		AT COMMAND 3.6.3	
22	ME (→	Display "Run AT Command 3"	[alpha identifier is displayed with bold off,
22	USER)	TERMINIAL DESPONDE: DUN AT	request IMSI]
23	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT COMMAND 3.6.1	[Command performed successfully, AT Response containing IMSI]
24	$UICC \to ME$	PROACTIVE UICC SESSION	Tresponse containing inion
	CIOC / WIL	ENDED	

PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	10	B4			

## PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	00	B4			

#### PROACTIVE COMMAND: RUN AT COMMAND 3.6.3

## Logically:

Command details

Command number:

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<CR>"

Coding:

BER-TLV:	D0	25	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	08	41	54	2B	43	49
	4D	49	0D									

TERMINAL RESPONSE: RUN AT COMMAND 3.6.1

Logically:

Command details

Command number:

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: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

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.

## 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		3.7.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: RUN	
		AT COMMAND 3.7.1	
4	ME (→ USER)	Display "Run AT Command 1"	[alpha identifier is displayed with italic on, request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
6	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	, , , , , , , , , , , , , , , , , , , ,
7	$UICC \to ME$	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.2	
8	$ME \rightarrow UICC$	FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND: RUN AT COMMAND 3.7.2	
10	ME (→ USER)	Display "Run AT Command 2"	[alpha identifier is displayed with italic off, request IMSI]
11	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
12	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	Trooperior contaming into,
13	$UICC \to ME$	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.1	
14	$ME \rightarrow UICC$	FETCH	
15	$UICC \to ME$	PROACTIVE COMMAND: RUN	
16	ME (→	AT COMMAND 3.7.1 Display "Run AT Command 1"	[alpha identifier is displayed with italic on,
	USER)		request IMSI]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
18	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.7.3	
20	$ME \rightarrow UICC$	FETCH	
21	$UICC \to ME$	PROACTIVE COMMAND: RUN AT COMMAND 3.7.3	
22	ME (→ USER)	Display "Run AT Command 3"	[alpha identifier is displayed with italic off, request IMSI]
23	ME → UICC	TERMINAL RESPONSE: RUN AT COMMAND 3.7.1	[Command performed successfully, AT Response containing IMSI]
24	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	

## PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	20	B4			

## PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	00	B4			

#### PROACTIVE COMMAND: RUN AT COMMAND 3.7.3

## Logically:

Command details

Command number:

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<CR>"

Coding:

BER-TLV:	BER- TLV:	D0	25	81	03	01	34	00	82	02	81	82
		10	52	75	6E	20	41	54	20	43	6F	6D
		61	6E	64	20	33	A8	08	41	54	2B	43
		4D	49	0D								

TERMINAL RESPONSE: RUN AT COMMAND 3.7.1

Logically:

Command details

Command number:

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: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

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.

## 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		3.8.1	
2	ME → UICC	FETCH PROACTIVE COMMAND: RUN	
3	$UICC \to ME$	AT COMMAND 3.8.1	
4	ME (→	Display "Run AT Command 1"	[alpha identifier is displayed with underline on,
	USER)	Josephay Ham Fitt Communication	request IMSI]
5	ME → UICC	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 3.8.1	Response containing IMSI]
6	$UICC \to ME$	PROACTIVE UICC SESSION	
7	LUCO ME	ENDED	
/	$UICC \to ME$	PROACTIVE COMMAND PENDING: RUN AT COMMAND	
		3.8.2	
8	$ME \rightarrow UICC$	FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND: RUN	
		AT COMMAND 3.8.2	
10	ME (→	Display "Run AT Command 2"	[alpha identifier is displayed with underline off,
11	USER)	TERMINAL RESPONSE: RUN AT	request IMSI] [Command performed successfully, AT
''	$ME \rightarrow UICC$	COMMAND 3.8.1	Response containing IMSI]
12	$UICC \to ME$	PROACTIVE UICC SESSION	ixesponse containing intol
		ENDED	
13	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
14	ME	3.8.1 FETCH	
15	$ME \rightarrow UICC$ $UICC \rightarrow ME$	PROACTIVE COMMAND: RUN	
10		AT COMMAND 3.8.1	
16	$ME \left(  ightarrow  ight.$	Display "Run AT Command 1"	[alpha identifier is displayed with underline on,
	USER)		request IMSI]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
40		COMMAND 3.8.1	Response containing IMSI]
18	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
19	$UICC \to ME$	PROACTIVE COMMAND	
	OIOO / IVIL	PENDING: RUN AT COMMAND	
		3.8.3	
20	$ME \rightarrow UICC$	FETCH	
21	$UICC \to ME$	PROACTIVE COMMAND: RUN	
22	ME / ·	AT COMMAND 3.8.3 Display "Run AT Command 3"	[alpha identifier is displayed with underline off,
22	ME ( $\rightarrow$ USER)	Display Kull AT Collinatio 3	request IMSI]
23	ME → UICC	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
	/ 0.00	COMMAND 3.8.1	Response containing IMSI]
24	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	

## PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	40	B4			

## PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	00	B4			

#### PROACTIVE COMMAND: RUN AT COMMAND 3.8.3

## Logically:

Command details

Command number:

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<CR>"

Coding:

BER-TLV:	D0	25	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	80	41	54	2B	43	49
	4D	49	0D									

TERMINAL RESPONSE: RUN AT COMMAND 3.8.1

Logically:

Command details

Command number:

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: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A									

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.

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)

PENDING: RUN AT COMMAND 3,9.1 FETCH PROACTIVE COMMAND: RUN AT COMMAND 3,9.1 Display "Run AT Command 1" COMMAND 3,9.1 TERMINAL RESPONSE: RUN AT COMMAND 3,9.1 PROACTIVE COMMAND RESPONSE: RUN AT COMMAND 3,9.2  ME → UICC → ME  ME (→ USER)  ME → UICC → ME  TERMINAL RESPONSE: RUN AT COMMAND 3,9.2  ME (→ USER)  ME → UICC → ME  PROACTIVE COMMAND REDIDING: RUN AT COMMAND 3,9.2  TERMINAL RESPONSE: RUN AT COMMAND 3,9.1  TERMINAL RESPONSE: RUN AT COMMAND 3,9.1  TERMINAL RESPONSE: RUN AT COMMAND 3,9.1  ME → UICC → ME  PROACTIVE COMMAND 3,9.1  ME → UICC → ME  PROACTIVE COMMAND 3,9.1  ME → UICC → ME  PROACTIVE COMMAND 3,9.1  ME → UICC → ME  PROACTIVE COMMAND 3,9.1  ME → UICC → ME  PROACTIVE COMMAND 10 Display "Run AT Command 1" Display "Run AT Command 3" Display "Run AT Comm	Step	Direction	MESSAGE / Action	Comments
2	1	$UICC \to ME$		
Z				
Second Procession   Sec		.45		
AT COMMAND 3.9.1 Display Run AT Command 1" USER)  ME → UICC ME PROACTIVE COMMAND 3.9.2  ME → UICC → ME PROACTIVE COMMAND RUN AT COMMAND 3.9.2  ME → UICC → ME USER)  ME → UICC  ME (→ USER)  ME → UICC  ME (→ USER)  ME → UICC  ME → ME → ME → ME → ME → ME → ME → ME				
ME (→ USER)   Display "Run AT Command 1"   [alpha identifier is displayed with strikethrough on, request IMSI]   Command performed successfully, AT (COMMAND 3.9.1   COMMAND 3.9.1   COMMAND 3.9.1   COMMAND 3.9.2   COMMAND 3.9.2   Display "Run AT COMMAND 3.9.2   Display "Run AT Command 2"   [alpha identifier is displayed with strikethrough off, request IMSI]   Command performed successfully, AT (COMMAND 3.9.2   Display "Run AT Command 2"   COMMAND 3.9.2   Display "Run AT Command 2"   COMMAND 3.9.1   COMMAND 3.9.3   COMM	3	UICC → ME		
USER)  ME → UICC  ME  TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  PROACTIVE UICC SESSION ENDED  PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.2  ME → UICC → ME  ME → UICC  ME  ME → UICC  ME  ME → UICC  ME  TERMINAL RESPONSE: RUN AT COMMAND PENDING: RUN AT COMMAND 3.9.2  ME (→ USER)  ME → UICC  ME  TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  PROACTIVE UICC SESSION ENDED  PROACTIVE UICC SESSION ENDED  PROACTIVE UICC SESSION ENDED  PROACTIVE COMMAND ADD ADD PENDING: RUN AT COMMAND 3.9.1  ME → UICC → ME  ME → UICC  ME  ME → UICC  ME  TERMINAL RESPONSE: RUN AT COMMAND ADD ADD ADD ADD ADD ADD ADD ADD ADD	4	MF (_		[alpha identifier is displayed with strikethrough
TERMINAL RESPONSE: RUN AT COMMAND 3.9.1    Command performed successfully, AT COMMAND 3.9.1   Command performed successfully, AT Response containing IMSI]			Display Harry Command	
COMMAND 3.9.1 PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.2  8 ME → UICC → ME PROACTIVE COMMAND RUN AT COMMAND 3.9.2 Display "Run AT Command 2" USER)  11 ME (→ UICC → ME UICC → ME UICC → ME  12 UICC → ME 13 UICC → ME PROACTIVE UICC SESSION ENDED 13 UICC → ME PROACTIVE UICC SESSION ENDED 14 ME → UICC UICC → ME PROACTIVE COMMAND 3.9.1 PETCH 15 UICC → ME 16 ME (→ UICC → ME UICC → ME 17 ME → UICC UICC → ME UICC → M	5		TERMINAL RESPONSE: RUN AT	
The first section of the firs			COMMAND 3.9.1	Response containing IMSI]
TOMMAND 3.9.1    Terminal Productive Command 2"   Terminal Productive Command 3"   Terminal Produc	6	$UICC \to ME$		
BENDING: RUN AT COMMAND 3.9.2    ME → UICC → ME	_			
8 ME → UICC 9 UICC → ME 9 UICC → ME 10 ME (→ USER) 11 ME → UICC 11 UICC → ME 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 ME (→ USER) 17 ME → UICC 18 UICC → ME 19 UICC → ME 10 ME (→ UICC → ME 11 ME → UICC 11 UICC → ME 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 ME (→ USER) 17 ME → UICC 18 UICC → ME 19 UICC → ME 19 UICC → ME 10 UICC → ME 10 UICC → ME 11 ME → UICC 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 ME (→ USER) 17 ME → UICC 18 UICC → ME 19 UICC → ME 19 UICC → ME 10 UICC → ME 10 UICC → ME 11 UICC → ME 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 ME (→ USER) 17 ME → UICC 18 UICC → ME 19 UICC → ME 19 UICC → ME 10 UICC → ME 11 UICC → ME 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 ME → UICC 17 UICC → ME 18 UICC → ME 19 UICC → ME 19 UICC → ME 19 UICC → ME 10 UICC → ME 11 ME → UICC 11 UICC → ME 12 UICC → ME 13 UICC → ME 14 ME → UICC 15 UICC → ME 16 ME → UICC 17 UICC → ME 18 UICC → ME 19 UICC → ME 19 UICC → ME 19 UICC → ME 19 UICC → ME 10 UICC → ME 11 ME → UICC 11 UICC → ME 12 ME → UICC 13 ME → UICC 14 UICC → ME 15 UICC → ME 16 ME → UICC 17 UICC → ME 17 ME → UICC 18 ME → UICC 19 ME → UICC 20 ME → UICC 21 UICC → ME 21 UICC → ME 22 ME (→ UICC COMMAND 3.9.3 23 ME → UICC 24 UICC → ME 25 ME → UICC 26 ME → UICC 27 UICC → ME 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 UICC → ME 21 UICC → ME 22 ME (→ UICC COMMAND 3.9.3 23 Display "Run AT Command 3" 24 UICC → ME 25 ME → UICC 26 ME 27 ME → UICC 27 ME 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 UICC → ME 21 UICC → ME 22 ME (→ UICC SESSION 29 ME → UICC 20 ME → UICC 21 UICC → ME 21 ME (→ UICC SESSION 29 ME → UICC 20 ME → UICC ME 21 UICC → ME 22 ME (→ UICC ME 23 ME → UICC 24 UICC → ME 24 UICC → ME 25 ME (→ UICC ME 26 ME → UICC 27 ME 27 ME (→ UICC ME 28 ME (→ UICC ME 29 ME (→ UICC ME 20 ME → UICC 20 ME → UICC ME 21 UICC → ME 21 ME (→ UICC ME 21 ME (→ UICC ME 22 ME (→ UICC ME 23 ME (→ UICC ME 24 UICC → ME 24 UICC → ME 25 ME (→ UICC ME 26 MEAD (A TEMINATIC MESTINATIC 26 MEAD (A TEMINATIC MESTINATIC 27 MEA	/	$UICC \to ME$		
8				
9 UICC → ME AT COMMAND: RUN AT COMMAND 3.9.2  10 ME (→ USER)  11 ME → UICC  12 UICC → ME PROACTIVE COMMAND 2.9.1  13 UICC → ME PROACTIVE UICC SESSION ENDED  13 UICC → ME PROACTIVE COMMAND 3.9.1  14 ME → UICC  15 UICC → ME PROACTIVE COMMAND 3.9.1  16 ME (→ USER)  17 ME → UICC  18 UICC → ME PROACTIVE COMMAND 3.9.1  18 UICC → ME PROACTIVE COMMAND 3.9.1  19 UICC → ME PROACTIVE UICC SESSION ENDED  19 UICC → ME PROACTIVE COMMAND 3.9.1  20 ME → UICC  21 UICC → ME PROACTIVE COMMAND 3.9.3  22 ME (→ USER)  23 ME → UICC  24 UICC → ME  PROACTIVE COMMAND 3.9.1  TERMINAL RESPONSE: RUN AT Command 3"  TERMINAL RESPONSE: RUN AT Command performed successfully, AT Response containing IMSI]	8	MF → UICC		
AT COMMAND 3.9.2 Display "Run AT Command 2" USER)  11 ME → UICC  ME → UICC → ME  12 UICC → ME  13 UICC → ME  14 ME → UICC  15 UICC → ME  16 ME (→ USER)  17 ME → UICC  ME (→ USER)  18 UICC → ME  19 UICC → ME  19 UICC → ME  19 UICC → ME  10 UICC → ME  11 ME → UICC  12 UICC → ME  13 UICC → ME  14 ME → UICC  15 UICC → ME  16 ME (→ USER)  17 ME → UICC  TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  18 UICC → ME  19 UICC → ME  19 UICC → ME  10 UICC → ME  11 UICC → ME  12 UICC → ME  13 UICC → ME  14 ME (→ UICC  TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  TERMINAL RESPONSE: RUN AT COMMAND 3.9.3  18 UICC → ME  19 PROACTIVE UICC SESSION ENDED  19 UICC → ME  10 UICC → ME  11 VICC → ME  12 UICC → ME  13 UICC → ME  14 ME (→ UICC  TERMINAL RESPONSE: RUN AT COMMAND 3.9.3  TERMINAL RESPONSE: RUN AT COMMAND 3.9.3  20 ME → UICC  21 UICC → ME  22 ME (→ UICC  23 ME → UICC  TERMINAL RESPONSE: RUN AT COMMAND 3.9.3  TERMINAL RESPONSE: RUN AT COMMAND 3.9.3  TERMINAL RESPONSE: RUN AT COMMAND 3.9.1			PROACTIVE COMMAND: RUN	
USER)  ME → UICC  ME  VICC → ME  PROACTIVE UICC SESSION ENDED  PROACTIVE COMMAND 3.9.1  ME → UICC  ME  ME → UICC  ME  ME (→ USER)  ME → UICC  ME  ME (→ USER)  ME → UICC  ME  ME (→ USER)  ME → UICC  ME  ME  ME  ME  ME  ME  ME  ME  ME			AT COMMAND 3.9.2	
11 ME → UICC  12 UICC → ME  13 UICC → ME  14 ME → UICC  15 UICC → ME  16 ME (→	10		Display "Run AT Command 2"	
COMMAND 3.9.1 PROACTIVE UICC SESSION ENDED  13 UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.1  14 ME → UICC 15 UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.1  16 ME (→ USER) 17 ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  18 UICC → ME PROACTIVE UICC SESSION ENDED 19 UICC → ME PROACTIVE UICC SESSION ENDED 19 UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND PENDING: RUN AT COMMAND PENDING: RUN AT COMMAND PENDING: RUN AT COMMAND AT COMMAND 3.9.3  20 ME → UICC UICC → ME VUSER)  ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.3  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]			TERMINAL RESPONDE BUILDE	
12 UICC → ME PROACTIVE UICC SESSION ENDED  13 UICC → ME PROACTIVE COMMAND PRODING: RUN AT COMMAND 3.9.1  14 ME → UICC 15 UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.1  16 ME (→ USER)  17 ME → UICC 18 UICC → ME TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  18 UICC → ME PROACTIVE UICC SESSION ENDED  19 UICC → ME PROACTIVE UICC SESSION ENDED  19 UICC → ME PROACTIVE COMMAND 3.9.3  20 ME → UICC 21 UICC → ME PROACTIVE COMMAND 3.9.3  20 ME → UICC 21 UICC → ME UICC SESSION ETCH 22 ME (→ USER)  3 ME → UICC 23 ME (→ USER)  4 UICC → ME  TERMINAL RESPONSE: RUN AT COMMAND 3.9.3  Display "Run AT Command 3" [alpha identifier is displayed with strikethrough off, request IMSI]  [ICOMMAND 3.9.1 [alpha identifier is displayed with strikethrough off, request IMSI]  [ICOMMAND 3.9.1 [alpha identifier is displayed with strikethrough off, request IMSI]  [ICOMMAND 3.9.1 [alpha identifier is displayed with strikethrough off, request IMSI]  [ICOMMAND 3.9.1 [alpha identifier is displayed with strikethrough off, request IMSI]  [ICOMMAND 3.9.1 [alpha identifier is displayed with strikethrough off, request IMSI]  [ICOMMAND 3.9.1 [alpha identifier is displayed with strikethrough off, request IMSI]  [ICOMMAND 3.9.1 [alpha identifier is displayed with strikethrough off, request IMSI]  [ICOMMAND 3.9.1 [alpha identifier is displayed with strikethrough off, request IMSI]  [ICOMMAND 3.9.1 [alpha identifier is displayed with strikethrough off, request IMSI]  [ICOMMAND 3.9.1 [alpha identifier is displayed with strikethrough off, request IMSI]	11	$ME \rightarrow UICC$		
UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.1  14 ME → UICC 15 UICC → ME 16 ME (→ USER) 17 ME → UICC 18 UICC → ME 19 UICC → ME 19 UICC → ME 19 UICC → ME 20 ME → UICC 21 UICC → ME 21 UICC → ME 22 ME (→ USER) 23 ME → UICC 24 UICC → ME 24 UICC → ME 24 UICC → ME 25 ENDED PROACTIVE COMMAND PROACTIVE COMMAND PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PROACTIVE COMMAND PROACTIVE COMMAND AT COMMAND 3.9.3 PETCH PROACTIVE COMMAND AT COMMAND 3.9.3  [alpha identifier is displayed with strikethrough off, request IMSI] [blay a identifier is displayed with strikethrough off, request IMSI] [command performed successfully, AT Response containing IMSI]  [command performed successfully, AT Response containing IMSI]	12	LUCC ME		Response containing initial
UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3,9.1 FETCH PROACTIVE COMMAND: RUN AT COMMAND 3,9.1 Display " Run AT Command 1" USER)  ME → UICC  ME → ME  ME → UICC  ME → ME  ME → UICC  ME → ME → UICC  ME	12	OICC → IVIL		
PENDING: RUN AT COMMAND 3.9.1 FETCH PROACTIVE COMMAND: RUN AT COMMAND 3.9.1 Display "Run AT Command 1" USER)  ME → UICC  ME → UICC  ME → UICC  TERMINAL RESPONSE: RUN AT Command performed successfully, AT COMMAND 3.9.1 PROACTIVE UICC SESSION ENDED PROACTIVE COMMAND PROBING: RUN AT COMMAND 3.9.3  ME → UICC	13	UICC → ME		
14 ME → UICC 15 UICC → ME 16 ME (→ USER) 17 ME → UICC 18 UICC → ME 19 UICC → ME 20 ME → UICC 21 UICC → ME 21 UICC → ME 22 ME (→ USER) 23 ME → UICC 24 UICC → ME 24 UICC → ME 24 UICC → ME 25 ME → UICC 26 ME → UICC 27 UICC → ME 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 UICC → ME 21 UICC → ME 22 ME (→ USER) 23 ME → UICC 24 UICC → ME 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 UICC → ME 21 ME → UICC 22 ME (→ USER) 23 ME → UICC 24 UICC → ME 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME (→ USER) 23 ME → UICC 24 UICC → ME 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME (→ USER) 23 ME → UICC 24 UICC → ME 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME (→ USER) 23 ME → UICC 24 ME (→ USER) 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME (→ UICC → ME) 24 ME → UICC 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME (→ UICC → ME) 24 ME → UICC 25 ME → UICC 26 ME → UICC 27 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC → ME 20 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME → UICC 23 ME → UICC 24 ME → UICC 25 ME → UICC 26 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME → UICC 23 ME → UICC 24 ME → UICC 25 ME → UICC 26 ME → UICC 27 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME → UICC 20 ME → UICC 20 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 21 ME → UICC 22 ME → UICC 23 ME → UICC 24 ME → UICC 25 ME → UICC 26 ME → UICC 27 ME → UICC 27 ME → UICC 28 ME → UICC 29 ME →			PENDING: RUN AT COMMAND	
15 UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.1  16 ME (→ USER)  17 ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  18 UICC → ME PROACTIVE UICC SESSION ENDED  19 UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3  20 ME → UICC FETCH PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3  21 UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3  22 ME (→ UICC → ME PROACTIVE COMMAND AT COMMAND 3.9.3  23 ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  24 UICC → ME PROACTIVE UICC SESSION  25 ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  26 UICC → ME PROACTIVE UICC SESSION  27 ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  28 PROACTIVE UICC SESSION  29 PROACTIVE COMMAND TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  20 PROACTIVE UICC SESSION  21 Command performed successfully, AT Response containing IMSI]				
AT COMMAND 3.9.1    ME (→ USER)				
16 ME (→ USER)  17 ME → UICC  18 UICC → ME  19 UICC → ME  20 ME → UICC  21 UICC → ME  22 ME (→ USER)  23 ME → UICC  24 UICC → ME  24 UICC → ME  Display " Run AT Command 1"  Display " Run AT Command 1"  TERMINAL RESPONSE: RUN AT COMMAND 1"  COMMAND 3.9.1  PROACTIVE UICC SESSION ENDED  PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3  FETCH  PROACTIVE COMMAND: RUN AT COMMAND 3.9.3  Display "Run AT Command 3"  [alpha identifier is displayed with strikethrough off, request IMSI]  [alpha identifier is displayed with strikethrough off, request IMSI]  [Command performed successfully, AT Response containing IMSI]	15	$UICC \to ME$		
USER)  ME → UICC  ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  PROACTIVE UICC SESSION ENDED  PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3  ME → UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3  ME → UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3  ME (→ UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3  ME (→ USER)  ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  ME → UICC → ME PROACTIVE UICC SESSION  ME → UICC → ME PROACTIVE UICC SESSION  ME → UICC → ME PROACTIVE UICC SESSION	16	ME ( \		Salpha identifier is displayed with strikethrough
<ul> <li>ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1</li> <li>UICC → ME PROACTIVE UICC SESSION ENDED</li> <li>UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3</li> <li>ME → UICC → ME PROACTIVE COMMAND FETCH PROACTIVE COMMAND: RUN AT COMMAND 3.9.3</li> <li>ME → UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3</li> <li>ME (→ UICC → ME) Display "Run AT Command 3" [alpha identifier is displayed with strikethrough off, request IMSI]</li> <li>ME → UICC → ME TERMINAL RESPONSE: RUN AT COMMAND 3.9.1 [Command performed successfully, AT Response containing IMSI]</li> <li>UICC → ME PROACTIVE UICC SESSION</li> </ul>	10		Display Rull AT Command 1	
COMMAND 3.9.1  PROACTIVE UICC SESSION ENDED  PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3  ME → UICC UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3  ME (→ USER)  ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  PROACTIVE UICC SESSION  Response containing IMSI]  Response containing IMSI]  Response containing IMSI]	17		TERMINAL RESPONSE: RUN AT	
19 UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3  20 ME → UICC 1 UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3  22 ME (→ USER) 23 ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1 24 UICC → ME PROACTIVE UICC SESSION    Command performed successfully, AT			COMMAND 3.9.1	
19 UICC → ME PROACTIVE COMMAND PENDING: RUN AT COMMAND 3.9.3  20 ME → UICC 1 UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3  22 ME (→ USER) 23 ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1 24 UICC → ME PROACTIVE UICC SESSION    Command performed successfully, AT	18	$UICC \to ME$		
PENDING: RUN AT COMMAND 3.9.3  20 ME → UICC 21 UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3  22 ME (→ Display "Run AT Command 3" [alpha identifier is displayed with strikethrough off, request IMSI]  23 ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  24 UICC → ME PROACTIVE UICC SESSION  PENDING: RUN AT COMMAND [alpha identifier is displayed with strikethrough off, request IMSI] [Command performed successfully, AT Response containing IMSI]				
3.9.3 FETCH UICC → ME UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3 Display "Run AT Command 3" USER)  ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  PROACTIVE UICC SESSION    Command performed successfully, AT Response containing IMSI]	19	$UICC \to ME$		
20 ME → UICC FETCH 21 UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3  22 ME (→ USER)  23 ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  24 UICC → ME PROACTIVE UICC SESSION  [alpha identifier is displayed with strikethrough off, request IMSI] [Command performed successfully, AT Response containing IMSI]				
<ul> <li>UICC → ME PROACTIVE COMMAND: RUN AT COMMAND 3.9.3</li> <li>ME (→ USER)</li> <li>ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1</li> <li>UICC → ME PROACTIVE COMMAND: RUN AT Command 3" [alpha identifier is displayed with strikethrough off, request IMSI]</li> <li>[Command performed successfully, AT Response containing IMSI]</li> </ul>	20	MF → LIICC		
AT COMMAND 3.9.3  Display "Run AT Command 3"  USER)  ME → UICC  TERMINAL RESPONSE: RUN AT COmmand performed successfully, AT COMMAND 3.9.1  PROACTIVE UICC SESSION    Command performed successfully, AT Response containing IMSI]				
USER)  ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1  PROACTIVE UICC SESSION  Off, request IMSI]  [Command performed successfully, AT Response containing IMSI]		5133 /2	AT COMMAND 3.9.3	
23 ME → UICC TERMINAL RESPONSE: RUN AT COMMAND 3.9.1 [Command performed successfully, AT Response containing IMSI]  24 UICC → ME PROACTIVE UICC SESSION	22		Display "Run AT Command 3"	
COMMAND 3.9.1 Response containing IMSI]  24 UICC → ME PROACTIVE UICC SESSION		,		
24 UICC → ME PROACTIVE UICC SESSION	23	$ME \rightarrow UICC$		
0.00 /	24	LUCC ME		Response containing livi5ij
	Z4	OICC → IVIE	ENDED	

PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	80	B4			

## PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	00	B4			

#### PROACTIVE COMMAND: RUN AT COMMAND 3.9.3

# Logically:

Command details

Command number:

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<CR>"

Coding:

BER-TLV:	D0	25	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	08	41	54	2B	43	49
	4D	49	0D									

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: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	OΑ									

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: RUN AT COMMAND	
		3.10.1	
2	/ 0.00	FETCH	
3	$UICC \rightarrow ME$	PROACTIVE COMMAND: RUN	
		AT COMMAND 3.10.1	
4	$ME \left(  ightarrow  ight.$	Display "Run AT Command 1"	[alpha identifier is displayed with foreground
	USER)		and background colour according to the text
_		TERMINIAL RECOGNICE: DUN AT	attribute configuration, request IMSI]
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
6	11100 ME	COMMAND 3.10.1 PROACTIVE UICC SESSION	Response containing IMSI]
0	$UICC \to ME$	FNDFD	
7	UICC → ME	PROACTIVE COMMAND	
'	OICC - IVIL	PENDING: RUN AT COMMAND	
		3.10.2	
8	ME → UICC	FETCH	
9		PROACTIVE COMMAND: RUN	
	0100 / 1112	AT COMMAND 3.10.2	
10	$ME \left(  ightarrow  ight.$	Display "Run AT Command 2"	[alpha identifier is displayed with ME's default
	USER)	. ,	foreground and background colour, request
	,		IMSI]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: RUN AT	[Command performed successfully, AT
		COMMAND 3.10.1	Response containing IMSI]
12	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	

# PROACTIVE 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<CR>"

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	2B	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	08	41	54	2B	43	49
	4D	49	0D	D0	04	00	10	00	B4			

#### PROACTIVE 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<CR>"

Coding:

BER-TLV:	D0	25	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	80	41	54	2B	43	49
	4D	49	0D									

## 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

ÂT Response string: <CR><LF>IMSI<CR><LF>CR><LF>OK<CR><LF>

Coding:

BER-TLV:	81	03	01	34	00	82	02	82	81	83	01	00
	A9	19	0D	0A	30	30	31	30	31	30	31	32
	33	34	35	36	37	38	39	0D	0A	0D	0A	4F
	4B	0D	0A			,	,					

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 $\rightarrow$ ME	Set up a call to "+0123456789"	
2	$ME \rightarrow USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND	
_		PENDING: SEND DTMF 1.1.1	
5	$ME \rightarrow UICC$		
6	$UICC \to ME$	PROACTIVE COMMAND: SEND	
_		DTMF 1.1.1	
7	$ME \rightarrow USER$	, , ,	
		concerning what is happening.	
		Do not locally generate audible DTMF tones and play them to the	
		user.	
8	$ME \rightarrow USS$	Start DTMF 1.1	["1"]
9	ME → 000	Otal Divil 1.1	No DTMF sending for 3 seconds ±20%
10		Start DTMF 1.2	["2"]
11	,	TERMINAL RESPONSE: SEND	[Command performed successfully]
''	IVIL -> UICC	DTMF 1.1.1	[Command portornion adoptionally]
12	UICC → ME	PROACTIVE UICC SESSION	
	0.00 / 1112	ENDED	
13	$User \to ME$	End the call	

## PROACTIVE COMMAND: SEND DTMF 1.1.1

## Logically:

Command details

Command number:

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	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 1.2.1	
5	$ME \rightarrow UICC$	FETCH	
6	/ 0.00	PROACTIVE COMMAND: SEND	
		DTMF 1.2.1	
7	$ME \rightarrow USER$	Display "Send DTMF"	Alpha identifier
		Do not locally generate audible	·
		DTMF tones and play them to the	
		user.	
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	$ME \to USS$	Start DTMF 1.2	["2"]
10	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
11	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
12	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
13	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
14	$ME \rightarrow USS$	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	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
19	$UICC \to ME$	PROACTIVE UICC SESSION	
13		ENDED	
20	$User \to ME$	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)

Step	Direction	MESSAGE / Action	Comments
1	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND	
_		PENDING: SEND DTMF 1.3.1	
5	L / 0.00	FETCH	
6	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 1.3.1	Alpha identifier with null data object
7	$ME \to USER$	Do not give any information to the	
		user on the fact that the ME is	
		performing a SEND DTMF	
		command.	
		Do not locally generate audible	
		DTMF tones and play them to the	
		user.	FII.4 II.7
8	$ME \rightarrow USS$	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 30 seconds ±20%
10	/ 000	Start DTMF 1.2	["2"]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 1.1.1	
12	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
13	User $\rightarrow$ 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 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	$UICC \to ME$	PROACTIVE COMMAND	[Mobile is not in a speech call]
		PENDING: SEND DTMF 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		DTMF 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[ME currently unable to process command,
			not in speech call]
5	$UICC \to ME$	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)

Step	Direction	MESSAGE / Action	Comments
1	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
4	$UICC \to ME$	message from the USS. PROACTIVE COMMAND	
	OICC - IVIL	PENDING: SEND DTMF 2.1.1	
5	$ME \to UICC$	FETCH	
6	$UICC \to ME$	PROACTIVE COMMAND: SEND	[BASIC-ICON, self-explanatory]
		DTMF 2.1.1	
7	$ME \rightarrow USER$		
		Do not locally generate audible	
		DTMF tones and play them to the user.	
8	$ME \rightarrow USS$	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	$ME \to USS$	Start DTMF 1.2	["2"]
11	$ME \to UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 2.1.1A	
12	$UICC \to ME$	PROACTIVE UICC SESSION	
13	Heer ME	ENDED	
13	User $\rightarrow$ 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  $EF_{(IMG)}$ 

## 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	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND	
_	ME	PENDING: SEND DTMF 2.1.1	
5	, 0.00		[DA010 100N
6	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 2.1.1	[BASIC-ICON, self-explanatory]
7	ME LICED		
/	$ME \rightarrow USER$	Display "Basic Icon" without the licon	
		Do not locally generate audible	
		DTMF tones and play them to the	
		user.	
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20 %
10		Start DTMF 1.2	["2"]
11		TERMINAL RESPONSE: SEND	[Command performed successfully, but
	/ 0100	DTMF 2.1.1B	requested icon could not be displayed]
12	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
13	$User \to ME$	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-T	LV:	81	03	01	14	00	82	02	82	81	83	01	04	l
-------	-----	----	----	----	----	----	----	----	----	----	----	----	----	---

## Expected Sequence 2.2A (SEND DTMF, COLOUR-ICON self explanatory, successful)

Step	Direction	MESSAGE / Action	Comments
1	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
4	$UICC \to ME$	message from the USS. PROACTIVE COMMAND	
7	OICC → IVIE	PENDING: SEND DTMF 2.2.1	
5	$ME \to UICC$		
6			[COLOUR-ICON]
		DTMF 2.2.1	
7	$ME \rightarrow USER$	1 ,	
		Do not locally generate audible	
		DTMF tones and play them to the user.	
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	ME → 000	Ciant B TWII 1.1	No DTMF sending for 3 seconds ±20%
10		Start DTMF 1.2	["2"]
11	$ME \to UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 2.1.1A	ļ
12	$UICC \to ME$	PROACTIVE UICC SESSION	
40	<u>.</u>	ENDED	
13	User $\rightarrow$ 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  $EF_{(IMG)}$ 

## 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)

Step	Direction	MESSAGE / Action	Comments
1	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND	
5	ME LUCC	PENDING: SEND DTMF 2.2.1	
	12 / 0.00	. = . •	ICOLOUD ICONI
6	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 2.2.1	[COLOUR-ICON]
7	ME → USER	Display "Colour Icon" without the	
'	IVIE → USEK	licon	
		Do not locally generate audible	
		DTMF tones and play them to the	
		user.	
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully, but
		DTMF 2.1.1B	requested icon could not be displayed]
12	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
13	User $\rightarrow$ 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	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
_		message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND	
5	ME → UICC	PENDING: SEND DTMF 2.3.1	
			[Alaba idantifian 0 DAOIO IOON and ank
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 2.3.1	[Alpha identifier & BASIC-ICON, not self- explanatory]
7	$ME \rightarrow USER$	Display "Send DTMF" and the	
		BASIC-ICON	
		Do not locally generate audible	
		DTMF tones and play them to the	
_		user.	
8	$ME \rightarrow USS$	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20 %
10	/ 000	Start DTMF 1.2	["2"]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 2.1.1A	
12	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
13	$User \to ME$	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  $EF_{(IMG)}$ 

## Coding:

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

# 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	$User \rightarrow ME$	Set up a call to "+0123456789"	
2	$ME \rightarrow USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND	
_	11100	PENDING: SEND DTMF 2.3.1	
5	/ 0.00	FETCH	
6	$UICC \to ME$	PROACTIVE COMMAND: SEND	[Alpha identifier & BASIC-ICON, not self-
_		DTMF 2.3.1	explanatory]
7	$ME \rightarrow USER$	1	
		icon	
		Do not locally generate audible	
		DTMF tones and play them to the user.	
8	ME → USS	Start DTMF 1.1	["1"]
9	ME → USS	Start D TWI 1.1	No DTMF sending for 3 seconds ±20%
10		Start DTMF 1.2	["2"]
11	/ 000	TERMINAL RESPONSE: SEND	Command performed successfully, but
''	IVIE → UICC	DTMF 2.1.1B	requested icon could not be displayed]
12	UICC → ME	PROACTIVE UICC SESSION	requested foot could not be displayed]
'-		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	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
4	LUCO ME	message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 3.1.1	
5	ME → UICC		
_			
6	$UICC \to ME$	PROACTIVE COMMAND: SEND	
l _		DTMF 3.1.1	
7	$ME \rightarrow USER$	Display "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
8	$ME \rightarrow USS$	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 3.1.1	
12	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
13	$User \to ME$	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)

Step	Direction	MESSAGE / Action	Comments
1	$User \rightarrow ME$	Set up a call to "+0123456789"	
2	$ME \rightarrow USS$	The ME attempts to set up a call to "+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.1.1	
5	$ME \rightarrow UICC$	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND	
		DTMF 4.1.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with left alignment]
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	$ME \to USS$	Start DTMF 1.2	["2"]
10	$ME \to USS$	Start DTMF 1.3	["3"]
11	$ME \to USS$	Start DTMF 1.4	["4"]
12	$ME \to USS$	Start DTMF 1.5	["5"]
13	$ME \to USS$	Start DTMF 1.6	["6"]
14	$ME \to USS$	Start DTMF 1.7	["7"]
15	$ME \to USS$	Start DTMF 1.8	["8"]
16	$ME \to USS$	Start DTMF 1.9	["9"]
17	$ME \to USS$	Start DTMF 1.10	["0"]
18	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DTMF 4.1.1	[Command performed successfully]
19	$UICC \to ME$	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	$USS \to ME$	The ME receives the CONNECT message from the USS.	
24	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.1.2	
25	$ME \rightarrow UICC$	FETCH	
26	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 4.1.2	
27	ME → USER	Display "Send DTMF" 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	$ME \to USS$	Start DTMF 1.1	["1"]
29	$ME \to USS$	Start DTMF 1.2	["2"]
30	$ME \to USS$	Start DTMF 1.3	["3"]
31	$ME \to USS$	Start DTMF 1.4	["4"]
32	$ME \to USS$	Start DTMF 1.5	["5"]
33	$ME \to USS$	Start DTMF 1.6	["6"]
34	$ME \to USS$	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.9	["9"]
37	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.1.1	[Command performed successfully]
39	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
40	$User \to ME$	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	1
----------	----	----	----	----	----	----	----	----	----	----	----	----	---

## 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)

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	$USS \to ME$	The ME receives the CONNECT	
4	$UICC \to ME$	message from the USS. PROACTIVE COMMAND	
_		PENDING: SEND DTMF 4.2.1	
5	ME → UICC	FETCH	
6	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 4.2.1	
7	ME → USER	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with center alignment]
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	$ME \to USS$	Start DTMF 1.2	["2"]
10	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
11	ME → USS	Start DTMF 1.4	["4"]
12	ME → USS	Start DTMF 1.5	["5"]
13	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
14		Start DTMF 1.7	["7"]
	ME → USS		
15	ME → USS	Start DTMF 1.8	["8"]
16	$ME \rightarrow USS$	Start DTMF 1.9	["9"]
17	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
18	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DTMF 4.2.1	[Command performed successfully]
19	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
20	$User \to ME$	End the call	
21	$User \rightarrow ME$	Set up a call to "+0123456789"	
22	$ME \to USS$	The ME attempts to set up a call to "+0123456789"	
23	$USS \to ME$	The ME receives the CONNECT message from the USS.	
24	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.2.2	
25	$ME \rightarrow UICC$	FETCH	
26	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 4.2.2	
27	$ME \rightarrow USER$	Display "Send DTMF"	[Message shall be formatted without center
	/ GGEIX	Do not locally generate audible DTMF tones and play them to the user.	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	$ME \to USS$	Start DTMF 1.1	["1"]
29	$ME \to USS$	Start DTMF 1.2	["2"]
30	$ME \to USS$	Start DTMF 1.3	["3"]
31	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
32	ME → USS	Start DTMF 1.5	["5"]
33	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
34	$ME \rightarrow USS$	Start DTMF 1.7	["7"]
35		Start DTMF 1.8	[ "8"]
	ME → USS	Start DTMF 1.9	["9"]
36	ME → USS		
37	ME → USS	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.2.1	[Command performed successfully]
39	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
40	$User \to ME$	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	1
----------	----	----	----	----	----	----	----	----	----	----	----	----	---

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)

Step	Direction	MESSAGE / Action	Comments
1	$User \rightarrow ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to "+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.3.1	
5	$ME \rightarrow UICC$	FETCH 4.3.1	
6	UICC → ME	PROACTIVE COMMAND: SEND	
	0.00 /	DTMF 4.3.1	
7	$ME \to USER$	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with right alignment]
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	$ME \to USS$	Start DTMF 1.2	["2"]
10	$ME \to USS$	Start DTMF 1.3	["3"]
11	$ME \to USS$	Start DTMF 1.4	["4"]
12	$ME \to USS$	Start DTMF 1.5	["5"]
13	$ME \to USS$	Start DTMF 1.6	["6"]
14	$ME \to USS$	Start DTMF 1.7	["7"]
15	$ME \to USS$	Start DTMF 1.8	["8"]
16	$ME \to USS$	Start DTMF 1.9	["9"]
17	$ME \to USS$	Start DTMF 1.10	["0"]
18	$ME \to UICC$	TERMINAL RESPONSE: SEND DTMF 4.3.1	[Command performed successfully]
19	$UICC \to ME$	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	
23	USS → ME	"+0123456789" The ME receives the CONNECT	
	OGO / WIL	message from the USS.	
24	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.3.2	
25	$ME \rightarrow UICC$	FETCH	
26	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 4.3.2	
27	$ME \to USER$	Display "Send DTMF" 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	$ME \to USS$	Start DTMF 1.1	["1"]
29	$ME \to USS$	Start DTMF 1.2	["2"]
30	$ME \to USS$	Start DTMF 1.3	["3"]
31	$ME \to USS$	Start DTMF 1.4	["4"]
32	$ME \to USS$	Start DTMF 1.5	["5"]
33	$ME \to USS$	Start DTMF 1.6	["6"]
34	$ME \rightarrow USS$	Start DTMF 1.7	["7"]
35	$ME \rightarrow USS$	Start DTMF 1.8	["8"]
36	$ME \rightarrow USS$	Start DTMF 1.9	["9"]
37	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
38	ME → UICC	TERMINAL RESPONSE: SEND DTMF 4.3.1	[Command performed successfully]
39	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
40	$User \to ME$	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

#### 27.22.4.24.4.4.1 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.

## 27.22.4.24.4.4.2 Procedure

## Expected Sequence 4.4 (SEND DTMF, with text attribute – Large Font Size)

StepDirectionMESSAGE / ActionComments1User → MESet up a call to "+0123456789"2 $ME \rightarrow USS$ The ME attempts to set up a call to "+0123456789"3USS → METhe ME receives the CONNECT message from the USS.4UICC → MEPROACTIVE COMMAND PENDING: SEND DTMF 4.4.15 $ME \rightarrow UICC$ PROACTIVE COMMAND: SEND DTMF 4.4.17 $ME \rightarrow USER$ Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.[Alpha identifier is displayed with last isize]8 $ME \rightarrow USS$ Start DTMF 1.1["1"]9 $ME \rightarrow USS$ Start DTMF 1.2["2"]10 $ME \rightarrow USS$ Start DTMF 1.3["3"]11 $ME \rightarrow USS$ Start DTMF 1.4["4"]12 $ME \rightarrow USS$ Start DTMF 1.5["5"]13 $ME \rightarrow USS$ Start DTMF 1.6["6"]14 $ME \rightarrow USS$ Start DTMF 1.7["7"]15 $ME \rightarrow USS$ Start DTMF 1.8["8"]16 $ME \rightarrow USS$ Start DTMF 1.9["9"]	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
3         USS → ME         The ME receives the CONNECT message from the USS.           4         UICC → ME         PROACTIVE COMMAND PENDING: SEND DTMF 4.4.1           5         ME → UICC HETCH PROACTIVE COMMAND: SEND DTMF 4.4.1         PROACTIVE COMMAND: SEND DTMF 4.4.1           7         ME → USER DTMF 1.0         Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.         [Alpha identifier is displayed with lastize]           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"]	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	rge font
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
12 $ME \rightarrow USS$ Start DTMF 1.5       ["5"]         13 $ME \rightarrow USS$ Start DTMF 1.6       ["6"]         14 $ME \rightarrow USS$ Start DTMF 1.7       ["7"]         15 $ME \rightarrow USS$ Start DTMF 1.8       ["8"]         16 $ME \rightarrow USS$ Start DTMF 1.9       ["9"]	
13 $ME \rightarrow USS$ Start DTMF 1.6       ["6"]         14 $ME \rightarrow USS$ Start DTMF 1.7       ["7"]         15 $ME \rightarrow USS$ Start DTMF 1.8       ["8"]         16 $ME \rightarrow USS$ Start DTMF 1.9       ["9"]	
14       ME → USS       Start DTMF 1.7       ["7"]         15       ME → USS       Start DTMF 1.8       ["8"]         16       ME → USS       Start DTMF 1.9       ["9"]	
15       ME → USS       Start DTMF 1.8       ["8"]         16       ME → USS       Start DTMF 1.9       ["9"]	
16 ME $\rightarrow$ USS Start DTMF 1.9 ["9"]	
17   ME $\rightarrow$ USS   Start DTMF 1.10 ["0"]	
18 ME → UICC TERMINAL RESPONSE: SEND [Command performed successfully]	J
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 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" [Alpha identifier is displayed with no Do not locally generate audible DTMF tones and play them to the user.	ormal font
28 ME → USS Start DTMF 1.1 ["1"]	
29 ME $\rightarrow$ USS Start DTMF 1.2 ["2"]	
$30$ ME $\rightarrow$ USS Start DTMF 1.3 ["3"]	
31 ME $\rightarrow$ USS Start DTMF 1.4 ["4"]	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	1
38 ME → UICC TERMINAL RESPONSE: SEND [Command performed successfully] DTMF 4.4.1	J
39 UICC → ME PROACTIVE UICC SESSION ENDED	
40 User → ME End the call	
<ul> <li>41 User → ME Set up a call to "+0123456789"</li> <li>42 ME → USS The ME attempts to set up a call to</li> </ul>	
$"+0123456789"$ 43 USS $\rightarrow$ ME The ME receives the CONNECT	
message from the USS.  44 UICC → ME PROACTIVE COMMAND	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	

46	$UICC \to ME$	PROACTIVE COMMAND: SEND	
47	ME LIGED	DTMF 4.4.1 Display "Send DTMF"	[Alpha identifier is displayed with large font
47	$ME \rightarrow USER$	Do not locally generate audible	size
		DTMF tones and play them to the	3126]
		user.	
48	$ME \to USS$	Start DTMF 1.1	["1"]
49	$ME \rightarrow USS$	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	$ME \rightarrow USS$	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	[Command performed successfully]
	, 0.00	DTMF 4.4.1	, , , , , , , , , , , , , , , , , , , ,
59	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
60	$User \to ME$	End the call	
61	$User \to ME$	Set up a call to "+0123456789"	
62	$ME \rightarrow USS$	The ME attempts to set up a call to	
		"+0123456789"	
63	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
64	$UICC \to ME$	PROACTIVE COMMAND	
0.5		PENDING: SEND DTMF 4.4.3	
65	ME → UICC	FETCH	
66	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 4.4.3	
67	$ME \rightarrow USER$	Display "Send DTMF"	[Alpha identifier is displayed with normal font
07	IVIE → USER	Do not locally generate audible	size
		DTMF tones and play them to the	6126]
		user.	
68	$ME \rightarrow USS$	Start DTMF 1.1	["1"]
69	$ME \to USS$	Start DTMF 1.2	["2"]
70	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
71	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
72	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
73	$ME \to USS$	Start DTMF 1.6	["6"]
74	$ME \to USS$	Start DTMF 1.7	["7"]
75	$ME \rightarrow USS$	Start DTMF 1.8	["8"]
76	$ME \rightarrow USS$	Start DTMF 1.9	["9"]
77	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
78	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
1		DTMF 4.4.1	
79	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
80	$User \to ME$	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:

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)

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	$USS \to ME$	The ME receives the CONNECT message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.1	
5	$ME \rightarrow UICC$	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND	
7	$ME \to USER$	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with small font size]
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
10	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
11		Start DTMF 1.4	
	ME → USS		["4"]
12	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
13	$ME \to USS$	Start DTMF 1.6	["6"]
14	$ME \to USS$	Start DTMF 1.7	["7"]
15	$ME \to USS$	Start DTMF 1.8	["8"]
16	$ME \to USS$	Start DTMF 1.9	["9"]
17	$ME \to USS$	Start DTMF 1.10	["0"]
18	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DTMF 4.5.1	[Command performed successfully]
19	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
20	$User \to ME$	End the call	
21	$User \to ME$	Set up a call to "+0123456789"	
22	$ME \to USS$	The ME attempts to set up a call to "+0123456789"	
23	$USS \to ME$	The ME receives the CONNECT message from the USS.	
24	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.2	
25	$ME \to UICC$	FETCH	
26		PROACTIVE COMMAND: SEND DTMF 4.5.2	
27	$ME \to USER$	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with normal font size]
28	$ME \to USS$	Start DTMF 1.1	["1"]
29	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
30	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
31	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
32	$ME \rightarrow USS$	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 1.10	["9"]
37	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
38	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DTMF 4.5.1	[Command performed successfully]
39	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
40	$User \to ME$	End the call	
41	$User \to ME$	Set up a call to "+0123456789"	
42	$ME \to USS$	The ME attempts to set up a call to "+0123456789"	
43	$USS \to ME$	The ME receives the CONNECT message from the USS.	
44	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.5.1	
45	$ME \to UICC$	FETCH	

46	$UICC \to ME$	PROACTIVE COMMAND: SEND	
47	ME HOED	DTMF 4.5.1	[Alaba identification displayed with small four
47	$ME \rightarrow USER$	Display "Send DTMF" Do not locally generate audible	[Alpha identifier is displayed with small font size]
		DTMF tones and play them to the	Sizej
		user.	
48	$ME \to USS$	Start DTMF 1.1	["1"]
49	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
50	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
51	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
52	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
53	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
	$ME \rightarrow USS$	Start DTMF 1.7	["7"]
54 55			
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	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
50	LUCC - ME	DTMF 4.5.1 PROACTIVE UICC SESSION	
59	$UICC \to ME$	ENDED	
60	$User \to ME$	End the call	
61	User → ME	Set up a call to "+0123456789"	
62	ME → USS	The ME attempts to set up a call to	
02	IVIE → USS	"+0123456789"	
63	$USS \to ME$	The ME receives the CONNECT	
00	USS → IVIL	message from the USS.	
64	$UICC \to ME$	PROACTIVE COMMAND	
	OIOO / IVIL	PENDING: SEND DTMF 4.5.3	
65	$ME \to UICC$	FETCH	
66	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		DTMF 4.5.3	
67	$ME \rightarrow USER$	Display "Send DTMF"	[Alpha identifier is displayed with normal font
		Do not locally generate audible	size]
		DTMF tones and play them to the	
		user.	
68	$ME \to USS$	Start DTMF 1.1	["1"]
69	$ME \to USS$	Start DTMF 1.2	["2"]
70	$ME \to USS$	Start DTMF 1.3	["3"]
71	$ME \to USS$	Start DTMF 1.4	["4"]
72	$ME \to USS$	Start DTMF 1.5	["5"]
73	$ME \to USS$	Start DTMF 1.6	["6"]
74	$ME \to USS$	Start DTMF 1.7	["7"]
75	$ME \to USS$	Start DTMF 1.8	["8"]
76	$ME \to USS$	Start DTMF 1.9	["9"]
77	$ME \to USS$	Start DTMF 1.10	["0"]
78	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 4.5.1	
79	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
80	$User \to ME$	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:

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)

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	$USS \to ME$	The ME receives the CONNECT message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.1	
5	$ME \rightarrow UICC$	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND DTMF 4.6.1	
7	$ME \to USER$	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with bold on]
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
11		Start DTMF 1.4	
	ME → USS		["4"]
12	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
13	$ME \to USS$	Start DTMF 1.6	["6"]
14	$ME \to USS$	Start DTMF 1.7	["7"]
15	$ME \to USS$	Start DTMF 1.8	["8"]
16	$ME \to USS$	Start DTMF 1.9	["9"]
17	$ME \to USS$	Start DTMF 1.10	["0"]
18	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DTMF 4.6.1	[Command performed successfully]
19	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
20	$User \to ME$	End the call	
21	$User \to ME$	Set up a call to "+0123456789"	
22	$ME \to USS$	The ME attempts to set up a call to "+0123456789"	
23	$USS \to ME$	The ME receives the CONNECT message from the USS.	
24	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.2	
25	$ME \rightarrow UICC$	FETCH	
26	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 4.6.2	
27	$ME \to USER$	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with bold off]
28	$ME \to USS$	Start DTMF 1.1	["1"]
29	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
30	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
31	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
32	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
33		Start DTMF 1.6	["6"]
	ME → USS		
34	ME → USS	Start DTMF 1.7	["7"]
35	ME → USS	Start DTMF 1.8	["8"]
36	ME → USS	Start DTMF 1.10	["9"]
37	ME → USS	Start DTMF 1.10	["0"]
38	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DTMF 4.6.1	[Command performed successfully]
39	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
40	$User \to ME$	End the call	
41	$User \to ME$	Set up a call to "+0123456789"	
42	$ME \to USS$	The ME attempts to set up a call to "+0123456789"	
43	$USS \to ME$	The ME receives the CONNECT message from the USS.	
44	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.6.1	
45	$ME \to UICC$		

46	$UICC \to ME$	PROACTIVE COMMAND: SEND	
47	ME LICED	DTMF 4.6.1 Display "Send DTMF"	[Alpha identifier is displayed with bold on]
47	$ME \rightarrow USER$	Do not locally generate audible	[Alpha identifier is displayed with bold on]
		DTMF tones and play them to the	
		user.	
48	$ME \to USS$	Start DTMF 1.1	["1"]
49	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
50	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
51	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
52	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
53	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
54	$ME \rightarrow USS$	Start DTMF 1.7	["7"]
55	$ME \rightarrow USS$	Start DTMF 1.8	["8"]
56	$ME \rightarrow USS$	Start DTMF 1.9	["9"]
57	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND	[Command performed successfully]
	WE 70100	DTMF 4.6.1	[Command pomonned decoders,]
59	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
60	$User \to ME$	End the call	
61	$User \to ME$	Set up a call to "+0123456789"	
62	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
63	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
64	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DTMF 4.6.3	
65	$ME \rightarrow UICC$	FETCH	
66	$UICC \to ME$	PROACTIVE COMMAND: SEND	
07		DTMF 4.6.3	[Alaba idanifiania diamana desida la del aff]
67	$ME \rightarrow USER$	Display "Send DTMF"	[Alpha identifier is displayed with bold off]
		Do not locally generate audible DTMF tones and play them to the	
		user.	
68	$ME \to USS$	Start DTMF 1.1	["1"]
69	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
70	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
71	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
72	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
73	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
74	$ME \rightarrow USS$		["7"]
75	$ME \rightarrow USS$	Start DTMF 1.8	["8"]
76	$ME \rightarrow USS$	Start DTMF 1.9	["9"]
77	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
78	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
	/ / / / / / / / / / / / / / / / / / / /	DTMF 4.6.1	[2g portormed dassessing]
79	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
80	$User \to ME$	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:

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)

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	
_	WE 7 000	"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
	7	message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DTMF 4.7.1	
5		FETCH	
6	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		DTMF 4.7.1	
7	$ME \to USER$	Display "Send DTMF"	[Alpha identifier is displayed with italic on]
		Do not locally generate audible	
		DTMF tones and play them to the	
8	ME LICC	user. Start DTMF 1.1	["1"]
9	$ME \rightarrow USS$	Start DTMF 1.1	
10	ME → USS	Start DTMF 1.2 Start DTMF 1.3	["2"] ["3"]
11	$\begin{array}{c} ME \to USS \\ ME \to USS \end{array}$	Start DTMF 1.4	[3] ["4"]
12		Start DTMF 1.4	[ <del>4</del> ] ["5"]
13	$ME \rightarrow USS$	Start DTMF 1.6	
14	ME → USS	Start DTMF 1.7	["6"]
15	$ME \rightarrow USS$	Start DTMF 1.7 Start DTMF 1.8	["7"] ["8"]
16	$\begin{array}{c} ME \to USS \\ ME \to USS \end{array}$	Start DTMF 1.9	["9"]
17	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
18	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
10	IVIE → UICC	DTMF 4.7.1	
19	$UICC \to ME$	PROACTIVE UICC SESSION	
	OIOO / IVIL	ENDED	
20	$User \to ME$	End the call	
21	$User \to ME$	Set up a call to "+0123456789"	
22	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
23	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
24	$UICC \to ME$	PROACTIVE COMMAND	
0.5		PENDING: SEND DTMF 4.7.2	
25	ME → UICC	FETCH	
26	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 4.7.2	
27	ME LISED	Display "Send DTMF"	[Alpha identifier is displayed with italic off]
	WIL → USLIX	Do not locally generate audible	The state of the s
		DTMF tones and play them to the	
		user.	
28	$ME \to USS$	Start DTMF 1.1	["1"]
29	$ME \to USS$	Start DTMF 1.2	["2"]
30	$ME \to USS$	Start DTMF 1.3	["3"]
31	$ME \to USS$	Start DTMF 1.4	["4"]
32	$ME \to USS$	Start DTMF 1.5	["5"]
33	$ME \to USS$	Start DTMF 1.6	["6"]
34	$ME \to USS$	Start DTMF 1.7	["7"]
35	$ME \to USS$	Start DTMF 1.8	["8"]
36	$ME \to USS$	Start DTMF 1.9	["9"]
37	$ME \to USS$	Start DTMF 1.10	["0"]
38	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
20	11100	DTMF 4.7.1	
39	$UICC \to ME$	PROACTIVE UICC SESSION	
40	$User \to ME$	ENDED End the call	
41	User → ME	Set up a call to "+0123456789"	
42	USEI → IVIE ME → USS	The ME attempts to set up a call to	
74	IVI⊏ → USS	"+0123456789"	
43	$USS \to ME$	The ME receives the CONNECT	
	JUD / IVIL	message from the USS.	
44	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DTMF 4.7.1	
45	$ME \to UICC$	FETCH	

46	$UICC \to ME$	PROACTIVE COMMAND: SEND	
47	ME LICED	DTMF 4.7.1 Display "Send DTMF"	[Alpha identifier is displayed with italic on]
47	$ME \rightarrow USER$	Do not locally generate audible	[Alpha identifier is displayed with italic on]
		DTMF tones and play them to the	
		user.	
48	$ME \to USS$	Start DTMF 1.1	["1"]
49	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
50	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
51	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
52	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
53	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
54	$ME \rightarrow USS$	Start DTMF 1.7	["7"]
55	$ME \rightarrow USS$	Start DTMF 1.8	["8"]
56	$ME \rightarrow USS$	Start DTMF 1.9	["9"]
57	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
58	ME → UICC	TERMINAL RESPONSE: SEND	[Command performed successfully]
	WE 70100	DTMF 4.7.1	[Command pomonned decoders,]
59	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
60	$User \to ME$	End the call	
61	$User \to ME$	Set up a call to "+0123456789"	
62	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
63	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
64	$UICC \to ME$	PROACTIVE COMMAND	
0.5		PENDING: SEND DTMF 4.7.3	
65		FETCH	
66	$UICC \to ME$	PROACTIVE COMMAND: SEND	
67	ME LICED	DTMF 4.7.3 Display "Send DTMF"	[Alpha identifier is displayed with italic off]
67	$ME \rightarrow USER$	Do not locally generate audible	[Alpha identifier is displayed with Italic off]
		DTMF tones and play them to the	
		user.	
68	$ME \to USS$	Start DTMF 1.1	["1"]
69	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
70	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
71	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
72	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
73	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
74	$ME \rightarrow USS$		["7"]
75	$ME \rightarrow USS$	Start DTMF 1.8	["8"]
76	$ME \rightarrow USS$	Start DTMF 1.9	["9"]
77	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
78	ME → UICC	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 4.7.1	·
79	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
80	$User \to ME$	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:

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)

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	$USS \to ME$	The ME receives the CONNECT message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.1	
5	$ME \rightarrow UICC$	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND	
7	$ME \to USER$	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with underline on]
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	ME → USS	Start DTMF 1.2	["2"]
10	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
11		Start DTMF 1.4	
	ME → USS		["4"]
12	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
13	$ME \to USS$	Start DTMF 1.6	["6"]
14	$ME \to USS$	Start DTMF 1.7	["7"]
15	$ME \to USS$	Start DTMF 1.8	["8"]
16	$ME \to USS$	Start DTMF 1.9	["9"]
17	$ME \to USS$	Start DTMF 1.10	["0"]
18	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DTMF 4.8.1	[Command performed successfully]
19	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
20	$User \to ME$	End the call	
21	$User \to ME$	Set up a call to "+0123456789"	
22	$ME \to USS$	The ME attempts to set up a call to "+0123456789"	
23	$USS \to ME$	The ME receives the CONNECT message from the USS.	
24	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.2	
25	$ME \rightarrow UICC$	FETCH	
26	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 4.8.2	
27	$ME \to USER$	Display "Send DTMF" Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with underline off]
28	$ME \to USS$	Start DTMF 1.1	["1"]
29	ME → USS	Start DTMF 1.2	["2"]
30	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
31	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
32	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
33	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
34	$ME \rightarrow USS$	Start DTMF 1.7	["7"]
35		Start DTMF 1.7	[
36	ME → USS	Start DTMF 1.9	["9"]
	ME → USS	Start DTMF 1.9	
37	ME → USS		["0"]
38	ME → UICC	DTMF 4.8.1	[Command performed successfully]
39	UICC → ME	PROACTIVE UICC SESSION ENDED	
40	User $\rightarrow$ 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.8.1	
45	$ME \rightarrow UICC$	FETCH	

46	$UICC \to ME$	PROACTIVE COMMAND: SEND	
47	ME HOED	DTMF 4.8.1	
47	$ME \rightarrow USER$		[Alpha identifier is displayed with underline on]
		Do not locally generate audible DTMF tones and play them to the	OH
		user.	
48	ME → USS	Start DTMF 1.1	["1"]
49	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
50	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
51	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
52	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
53		Start DTMF 1.6	["6"]
54	$\begin{array}{c} ME \to USS \\ ME \to USS \end{array}$	Start DTMF 1.7	["7"]
		Start DTMF 1.7 Start DTMF 1.8	-
55 56	ME → USS		["8"]
56	ME → USS	Start DTMF 1.10	["9"]
57	ME → USS	Start DTMF 1.10	["0"]
58	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
50	LUCC ME	DTMF 4.8.1 PROACTIVE UICC SESSION	
59	$UICC \to ME$	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	
02	IVIE → USS	"+0123456789"	
63	$USS \to ME$	The ME receives the CONNECT	
00	033 → IVIL	message from the USS.	
64	$UICC \to ME$	PROACTIVE COMMAND	
	OIOO / IVIL	PENDING: SEND DTMF 4.8.3	
65	$ME \rightarrow UICC$	FETCH	
66	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		DTMF 4.8.3	
67	$ME \rightarrow USER$	Display "Send DTMF"	[Alpha identifier is displayed with underline
		Do not locally generate audible	off]
		DTMF tones and play them to the	
		user.	
68	$ME \rightarrow USS$	Start DTMF 1.1	["1"]
69	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
70	$ME \to USS$	Start DTMF 1.3	["3"]
71	$ME \to USS$	Start DTMF 1.4	["4"]
72	$ME \to USS$	Start DTMF 1.5	["5"]
73	$ME \to USS$	Start DTMF 1.6	["6"]
74	$ME \to USS$	Start DTMF 1.7	["7"]
75	$ME \to USS$	Start DTMF 1.8	["8"]
76	$ME \to USS$	Start DTMF 1.9	["9"]
77	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
78	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 4.8.1	
79	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
80	$User \to ME$	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:

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)

Step	Direction	MESSAGE / Action	Comments
1	$User \rightarrow ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to "+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.9.1	
5	$ME \rightarrow UICC$	FETCH	
6	UICC → ME	PROACTIVE COMMAND: SEND	
7	ME LICED	Display "Send DTMF"	[Alpha identifier is displayed with strikethrough
,	WE → USER	Do not locally generate audible DTMF tones and play them to the user.	[Alpha identifier is displayed with strikethrough on]
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
10	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
11		Start DTMF 1.4	["4"]
	ME → USS	Start DTMF 1.5	
12	$ME \rightarrow USS$		["5"]
13	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
14	$ME \rightarrow USS$	Start DTMF 1.7	["7"]
15	$ME \to USS$	Start DTMF 1.8	["8"]
16	$ME \to USS$	Start DTMF 1.9	["9"]
17	$ME \to USS$	Start DTMF 1.10	["0"]
18	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DTMF 4.9.1	[Command performed successfully]
19	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
20	User $\rightarrow$ ME	End the call	
21	$User \to ME$	Set up a call to "+0123456789"	
22	$ME \to USS$	The ME attempts to set up a call to "+0123456789"	
23	$USS \to ME$	The ME receives the CONNECT message from the USS.	
24	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.9.2	
25	$ME \rightarrow UICC$	FETCH	
26	$UICC \to ME$	PROACTIVE COMMAND: SEND	
27	$ME \rightarrow USER$	DTMF 4.9.2 Display "Send DTMF"	Alpha identifier is displayed with strikethrough
21	WE → USER	Do not locally generate audible DTMF tones and play them to the user.	off]
28	$ME \to USS$	Start DTMF 1.1	["1"]
29	$ME \to USS$	Start DTMF 1.2	["2"]
30	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
31	$ME \rightarrow USS$	Start DTMF 1.4	["4"]
32	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
33	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
34	$ME \rightarrow USS$	Start DTMF 1.7	["7"]
35	$ME \rightarrow USS$	Start DTMF 1.8	["8"]
36	$ME \rightarrow USS$	Start DTMF 1.9	["9"]
37	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
38	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DTMF 4.9.1	[Command performed successfully]
39	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
40	$User \to ME$	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	$USS \to ME$	The ME receives the CONNECT	
44	$UICC \to ME$	message from the USS. PROACTIVE COMMAND PENDING: SEND DTMF 4.9.1	
45	$ME \to UICC$		

46	$UICC \to ME$	PROACTIVE COMMAND: SEND	
47	ME LIGER	DTMF 4.9.1	
47	$ME \rightarrow USER$	Display "Send DTMF" Do not locally generate audible	[Alpha identifier is displayed with strikethrough on]
		DTMF tones and play them to the	Onj
		user.	
48	$ME \rightarrow USS$	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	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
	WIE 7 0100	DTMF 4.9.1	[command ponomica decession]
59	$UICC \to ME$	PROACTIVE UICC SESSION	
	0.00 /	ENDED	
60	User $\rightarrow$ ME	End the call	
61	$User \to ME$	Set up a call to "+0123456789"	
62	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
63	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
64	$UICC \to ME$	PROACTIVE COMMAND	
0.5		PENDING: SEND DTMF 4.9.3	
65	ME → UICC	FETCH	
66	$UICC \to ME$	PROACTIVE COMMAND: SEND	
67	ME LICED	DTMF 4.9.3 Display "Send DTMF"	[Alpha identifier is displayed with strikethrough
07	$ME \rightarrow USER$	Do not locally generate audible	off]
		DTMF tones and play them to the	011]
		user.	
68	$ME \rightarrow USS$	Start DTMF 1.1	["1"]
69	$ME \rightarrow USS$	Start DTMF 1.2	["2"]
70	$ME \rightarrow USS$	Start DTMF 1.3	["3"]
71	ME → USS	Start DTMF 1.4	["4"]
72	$ME \rightarrow USS$	Start DTMF 1.5	["5"]
73	$ME \rightarrow USS$	Start DTMF 1.6	["6"]
74	ME → USS	Start DTMF 1.7	["7"]
75	$ME \rightarrow USS$	Start DTMF 1.8	["8"]
76	$ME \rightarrow USS$	Start DTMF 1.9	["9"]
77	$ME \rightarrow USS$	Start DTMF 1.10	["0"]
78	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 4.9.1	
79	$UICC \to ME$	PROACTIVE UICC SESSION	
1 _		ENDED	
80	User $\rightarrow$ 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:

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)

Step	Direction	MESSAGE / Action	Comments					
1	$User \rightarrow ME$	Set up a call to "+0123456789"						
2	$ME \to USS$	The ME attempts to set up a call to "+0123456789"						
3	$USS \to ME$	The ME receives the CONNECT message from the USS.						
4	$UICC \to ME$	PROACTIVE COMMAND 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" 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	$ME \rightarrow USS$	Start DTMF 1.2	["2"]					
10	$ME \rightarrow USS$	Start DTMF 1.3	["3"]					
11	$ME \rightarrow USS$	Start DTMF 1.4	["4"]					
12	$ME \rightarrow USS$	Start DTMF 1.5	["5"]					
13	$ME \rightarrow USS$	Start DTMF 1.6	["6"]					
14	$ME \rightarrow USS$	Start DTMF 1.7	[ 0 ] ["7"]					
		Start DTMF 1.7	[ ' ] ["8"]					
15	ME → USS	Start DTMF 1.9						
16	ME → USS		["9"]					
17	ME → USS	Start DTMF 1.10	["0"]					
18	ME → UICC	DTMF 4.10.1	[Command performed successfully]					
19	$UICC \to ME$	PROACTIVE UICC SESSION ENDED						
20	User $\rightarrow$ ME	End the call						
21	$User \to ME$	Set up a call to "+0123456789"						
22	$ME \to USS$	The ME attempts to set up a call to "+0123456789"						
23	$USS \to ME$	The ME receives the CONNECT message from the USS.						
24	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 4.10.2						
25	$ME \rightarrow UICC$	FETCH						
26	$UICC \to ME$	PROACTIVE COMMAND: SEND DTMF 4.10.2						
27	ME → USER	Display "Send DTMF" 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	$ME \to USS$	Start DTMF 1.1	["1"]					
29	$ME \rightarrow USS$	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	$ME \rightarrow USS$	Start DTMF 1.9	["9"]					
37	$ME \rightarrow USS$	Start DTMF 1.10	["0"]					
38	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[[Command performed successfully]					
39	UICC → ME	DTMF 4.10.1 PROACTIVE UICC SESSION	it community is a succession of the second s					
		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)

Step	Direction	MESSAGE / Action	Comments
1	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
4		message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DTMF 5.1.1	
5	ME → UICC		
6	UICC → ME		
	OIOO / IVIL	DTMF 5.1.1	
7	$ME \rightarrow USER$	Display "你好"	["Hello" in Chinese]
8	$ME \rightarrow USS$	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	$ME \to USS$	Start DTMF 1.2	["2"]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 5.1.1	
12	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
13	User $\rightarrow$ ME	End the call	

# PROACTIVE COMMAND: SEND DTMF 5.1.1

Logically:

Command details

Command number:

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:	3ER-TLV:	81   03   0	01   14	00   82	02   8	82   81	83	01	00	ĺ
----------	----------	-------------	---------	---------	--------	---------	----	----	----	---

# 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)

Step	Direction	MESSAGE / Action	Comments
1	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to USS$	The ME attempts to set up a call to	
		"+0123456789"	
3	$USS \to ME$	The ME receives the CONNECT	
		message from the USS.	
4	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DTMF 6.1.1	
5	/ 0.00	FETCH	
6	$UICC \to ME$	PROACTIVE COMMAND: SEND	
		DTMF 6.1.1	
7	$ME \rightarrow USER$	Display "ル"	[Character in Katakana]
8	$ME \to USS$	Start DTMF 1.1	["1"]
9	ME		No DTMF sending for 3 seconds ±20%
10	$ME \to USS$	Start DTMF 1.2	["2"]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DTMF 6.1.1	
12	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
13	$User \to ME$	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. The ME
			supports Launch Browser with Default URL]
1	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER	Supports Laurieri Browser with Default Ortej
		1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3		PROACTIVE COMMAND:	[connect to the default URL, "launch browser,
		LAUNCH BROWSER 1.1.1	if not already launched", no null alpha id.]
4	$ME \to USER$	ME displays the alpha identifier	
5	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
		launch browser.	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH BROWSER 1.1.1	[Command performed successfully]
7	$ME { ightarrow} USS$	If command was performed	[The USS shall handle the request of
		successfully, the ME attempts to	additional URLs as defined in the initial
		launch the session with the default	conditions section]
		browser parameters and the	
		default URL.	
8	$UICC \to ME$	PROACTIVE UICC SESSION	
9	LICED . ME	ENDED The user verifies that the browser	
9	$USER \to ME$		
		session to defined URL is properly established.	
		Cotabilorica.	

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

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.2.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 1.2.1	[connect to defined URL, "launch browser, if not already launched, alpha identifier length=0]
4	$ME \to USER$	No information should be displayed.	
5	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
6	$ME \to UICC$	TERMINAL RESPONSE: LAUNCH 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	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9	$USER \to ME$	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER	
		1.3.1	
2	L / 0.00	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 1.3.1	if not already launched, browser identity]
4	$ME \rightarrow USER$	ME may display a default message	
_		of its own.	
5	$USER \to ME$	1.	[option: user confirmation]
		browser.	
6	$ME \rightarrow UICC$		[Command performed successfully]
7	ME 1100	BROWSER 1.3.1	IThe LICC shall benefits the requirest of
/	ME→USS	The ME attempts to connect the	[The USS shall handle the request of
		URL specified in LAUNCH BROWSER command.	additional URLs as defined in the initial
8	$UICC \to ME$	PROACTIVE UICC SESSION	conditions section]
0	OICC → IVIE	FNDFD	
9	$USER \to ME$	The user verifies that the default	
9	USEN → IVIE	browser session is properly	
		lestablished.	
<u> </u>		ootabilorioa.	

# PROACTIVE COMMAND: LAUNCH BROWSER 1.3.1

# Logically:

Command details

Command number:

Command type: LAUNCH BROWSER

Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC
Destination device: ME
Browser Identity default

URL <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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)

## Coding::

BER-TLV:	D0	20	81	03	01	15	00	82	02	81	82	30
	01	00	31	12	68	74	74	70	3A	2F	2F	78
	78	78	2E	79	79	79	2E	7A	7A	7A		

# 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

723

General Result: Command performed successfully

Coding:

BER-TLV: 8	31 03	01	15	00	82	02	82	81	83	01	00	1
------------	-------	----	----	----	----	----	----	----	----	----	----	---

# 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	0.00 /	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.4.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 1.4.1	[connect to the defined URL, "launch browser, if not already launched, 1 bearer specified, gateway/proxy id specified]
4	$ME \to USER$	ME may display a default message	
5	$USER \to ME$	The user may confirm the launch browser.	[option: user confirmation]
6	$ME \to UICC$	TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1	[Command performed successfully]
7	ME→USS	The ME attempts to connect the URL specified in LAUNCH BROWSER command using the requested bearer and proxy identity	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
8	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9	$USER \to ME$	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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)

Bearer GPRS

Gateway/Proxy id

DCSunpacked, 8 bits data

Text string abc.def.ghi.jkl (different from the default IP address)

724

BER-TLV:	D0	32	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	32	01	03	0D	10
	04	61	62	63	2E	64	65	66	2E	67	68	69
	2F	6A	6B	6C								

TERMINAL RESPONSE: LAUNCH BROWSER 1.4.1

Logically:

Command details

Command number:

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**

# Expected Sequence 1.6 (LAUNCH BROWSER, ME does not support Launch Browser with Default URL)

Step	Direction	MESSAGE / Action	Comments
0	ME		[The ME is in idle mode and the browser's cache shall have been cleared. The ME does not support Launch Browser with Default URL]
1	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 1.1.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 1.1.1	[connect to the default URL, "launch browser, if not already launched", no null alpha id.]
4	$ME \to USER$	The ME may display the alpha identifier	
5	$USER \to ME$	If the ME displays the alpha identifier then the user confirms the launch browser.	[option: user confirmation]
6	$ME \to UICC$	TERMINAL RESPONSE: LAUNCH BROWSER 1.6.1)	[ME unable to process command - Default URL unavailable]
7	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	

TERMINAL RESPONSE: LAUNCH BROWSER 1.6.1

Logically:

Command details

Command number:

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 Default URL unavailable

Coding:

BER-TLV:	81	03	01	15	00	82	02	82	81	83	02	26
·	04											

## 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 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 in the test sequence.

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 specified URL)

Step	Direction	MESSAGE / Action	Comments
0	ME		[Browser is in use, the current session is not
		session (not the URL defined in the	secured]
		test sequence).	
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER	
		2.1.1	
2	E / 0.00	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "use the existing
4	ME HOED		browser", no null alpha id.]
4		ME displays the alpha identifier	
5	$USER \to ME$	The user confirms the launch	[user confirmation]
6	ME	browser.	[Command parformed augeocafully]
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH BROWSER 2.1.1	[Command performed successfully]
7	$ME \rightarrow USS$	The ME does not close the existing	[The USS shall handle the request of
		session and attempts to connect	additional URLs as defined in the initial
		the URL specified in LAUNCH	conditions section]
		BROWSER command.	Usage of a new active tab in the browser is a
			valid behaviour (see note)
8	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9	$USER \to ME$	The user verifies that the URL	
		specified in LAUNCH BROWSER	
		command is connected; and the	
		previous URL can be retrieved.	
NOTE:	Active tab indi	cates that web page is visible to the	user.

# 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined URL"

# Coding:

BER-TLV:	D0	2A	81	03	01	15	02	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	0B	44	65	66
	69	6F	65	64	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
D = 1 \ 1 = \ 1 .		00	<b>.</b>						<b>.</b>		<b>.</b>	

# Expected Sequence 2.2 (LAUNCH BROWSER, close the existing browser session and launch new browser session, connect to the specified URL)

Step	Direction	MESSAGE / Action	Comments
0	ME	session (not the URL defined in	[Browser is in use, the current session is not secured]
1	$UICC \to ME$	the test sequence). PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.2.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 2.2.1	[connect to the defined URL, "close the existing browser session and launch new browser session", no null alpha id.]
4	$ME \to USER$	ME displays the alpha identifier	
5	$USER \to ME$	The user confirms the launch browser.	[user confirmation]
6	$ME \to UICC$	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 URL specified in LAUNCH BROWSER command. IF A.1/155_THEN it is a valid behaviour to keep other sessions/tabs open and start the session in a new active tab (see note).	[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	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9		The user verifies that the URL specified in LAUNCH BROWSER command is connected.	
NOTE:	Active tab indi	cates that web page is visible to the	user.

# 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined URL"

BER-TLV:	D0	2A	81	03	01	15	03	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	0B	44	65	66
	69	6F	65	64	20	55	52	4C.				

TERMINAL RESPONSE: LAUNCH BROWSER 2.2.1

Logically:

Command details

Command number:

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	[Browser is in use, the current session is not
1	$UICC \to ME$	session (not the URL defined in the test sequence). PROACTIVE COMMAND PENDING: LAUNCH BROWSER 2.3.1	secured]
2	$ME \to UICC$	FETCH	
3		PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 2.3.1	if not already launched]
4	$ME \rightarrow UICC$	IF (NOT A.1/155)_THEN TERMINAL RESPONSE: LAUNCH BROWSER 2.3.1 ELSE IF (A.1/155) THEN TERMINAL RESPONSE:LAUNCH BROWSER 2.3.2	[ME unable to process command - browser unavailable] If browser supports multiple sessions/tabs, it is valid behaviour to open the session in a new active tab that does not interfere with other sessions (see note).
5	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
6	$USER \to ME$	IF (NOT A.1/155)_THEN the user	
		verifies that the URL specified in	
		LAUNCH BROWSER command	
		has not been connected.	
NOTE:	Active tab indi	cates that web page is visible to the	user.

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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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)

Coding:

BER-TLV:	D0	1D	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	2F	7A	7A	7A					

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											

TERMINAL RESPONSE: LAUNCH BROWSER 2.3.2

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

27.22.4.26.2.5 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 specified URL, UCS2 in Cyrillic)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a browser	[Browser is in use, the current session is not
1	$UICC \to ME$	session (not the URL defined in the test sequence). PROACTIVE COMMAND PENDING: LAUNCH BROWSER 3.1.1	secured]
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 3.1.1	[connect to the defined URL, "use the existing browser", alpha id. In UCS2]
4	$ME \to USER$	ME displays the alpha identifier "ЗДРАВСТВУЙТЕ"	["Hello" in Russian]
5	$USER \to ME$	The user confirms the launch browser.	[user confirmation]
6	$ME \to UICC$	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 URL specified in LAUNCH BROWSER command.	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
8	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9	$USER \to ME$	The user verifies that the 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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

Data coding scheme: UCS2 (16 bits)
Text: "ЗДРАВСТВУЙТЕ"

## Coding:

BER-TLV:	D0	38	81	03	01	15	02	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	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	$UICC \to ME$	PROACTIVE COMMAND	[Browser is in use, the current session is not
		PENDING: LAUNCH BROWSER	secured]
		4.1.1	
2	1112 / 0100	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "use the existing
		LAUNCH BROWSER 4.1.1	browser", no null alpha id.]
4	$ME \rightarrow USER$	ME displays the alpha identifier	["Not self explan."]
		and the icon	
5	$USER \to ME$	The user confirms the launch	[user confirmation]
		browser.	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH	[Command performed successfully]
_		BROWSER 4.1.1 A	[T] 1100 1 H H H H
7	$ME{ o}USS$	9	[The USS shall handle the request of
		session and attempts to connect	additional URLs as defined in the initial
		the URL specified in LAUNCH	conditions section]
8	LUCO ME	BROWSER command.	
0	$UICC \to ME$	PROACTIVE UICC SESSION	
9	$USER \to ME$	ENDED The user verifies that the URL	
9	USEK → ME	specified in LAUNCH BROWSER	
		command is connected; and the	
		previous URL can be retrieved.	
<u> </u>		previous one can be retileved.	

# 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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

"Not self explan."

Icon identifier:

 $\begin{array}{ll} Icon \ qualifier: & not \ self-explanatory \\ Icon \ identifier: & record \ 1 \ in \ EF_{(IMG)} \\ \end{array}$ 

# Coding:

BER-TLV:	D0	33	81	03	01	15	02	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	10	4E	6F	74
	20	73	65	6C	66	20	65	78	70	6C	61	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	$UICC \to ME$	PROACTIVE COMMAND	[Browser is in use, the current session is not
		PENDING: LAUNCH BROWSER	secured]
		4.1.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "use the existing
		LAUNCH BROWSER 4.1.1	browser", no null alpha id.]
4	$ME \to USER$	ME displays the alpha identifier	["Not self explan."]
		Without the icon	
5	$USER \to ME$	The user confirms the launch	[user confirmation]
		browser.	
6	$ME \rightarrow UICC$		[Command performed successfully but
		BROWSER 4.1.1 B	requested icon could not be displayed]
7	ME→USS	The ME does not close the existing	•
		session and attempts to connect	additional URLs as defined in the initial
		the URL specified in LAUNCH	conditions section]
		BROWSER command.	
8	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
9	$USER \to ME$	The user verifies that the URL	
		specified in LAUNCH BROWSER	
		command is connected; and the	
		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

BE	ER-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	$UICC \to ME$	PROACTIVE COMMAND	[Browser is in use, the current session is not
		PENDING: LAUNCH BROWSER	secured]
		4.2.1	
2	WE / 0100	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "use the existing
		LAUNCH BROWSER 4.2.1	browser", alpha id. In UCS2]
4		ME displays only the icon	["Self explan."]
5	$USER \to ME$	The user confirms the launch	[user confirmation]
		browser.	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH	[Command performed successfully]
		BROWSER 4.2.1 A	
7	ME→USS		[The USS shall handle the request of
		session and attempts to connect	additional URLs as defined in the initial
		the URL specified in LAUNCH	conditions section]
		BROWSER command.	
8	$UICC \to ME$	PROACTIVE UICC SESSION	
	LIGED ME	ENDED	
9	$USER \to ME$	The user verifies that the URL	
		specified in LAUNCH BROWSER	
		command 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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

"Self explan."

Icon identifier:

 $\begin{tabular}{ll} Icon qualifier: & self-explanatory \\ Icon identifier: & record 1 in EF_{(IMG)} \end{tabular}$ 

#### Coding:

BER-TLV:	D0	2F	81	03	01	15	02	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	0C	53	65	6C
	66	20	65	78	70	6C	61	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

736

Destination device: UICC

Result

General Result: Command performed successfully

Coding:

BER-TLV:	81	03	01	15	02	82	02	82	81	83	01	00
D=::::::::::::::::::::::::::::::::::::	<u> </u>	00				<u> </u>			<b>.</b>		, · · ·	, 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	$UICC \to ME$	PROACTIVE COMMAND	[Browser is in use, the current session is not
		PENDING: LAUNCH BROWSER	secured]
		4.2.1	
2	1112 / 0100	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "use the existing
			browser", alpha id. In UCS2]
4	$ME \rightarrow USER$	ME displays only the alpha	["Self explan."]
		identifier	
5	$USER \to ME$	I -	[user confirmation]
		browser.	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH	- · ·
		BROWSER 4.2.1 B	[Command performed successfully but
7	ME 1100	The NAT does not along the evicting	requested icon could not be displayed]
/	ME→USS		[The USS shall handle the request of
		session and attempts to connect the URL specified in LAUNCH	additional URLs as defined in the initial conditions section]
		BROWSER command.	conditions section]
8	$UICC \to ME$	PROACTIVE UICC SESSION	
0	OICC -> IVIE	ENDED	
9	$USER \to ME$	The user verifies that the URL	
	OOLIN - IVIL	specified in LAUNCH BROWSER	
		command 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:	l 81	กว	01	15	02	82	02	82	l 81	l 83	01	04
DER-ILV.	01	US	01	10	02	02	02	02	01	00	01	1 U <del>T</del>

# 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 specified 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER	
		5.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 5.1.1	if not already launched", no null alpha id]
4	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with left
5	LICED . ME	The user may have to confirm the	alignment]
5	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
6	$ME \rightarrow UICC$		[Command performed successfully]
0	IVIE → UICC	BROWSER 5.1.1	[Continuing performed successibility]
7	ME→USS	The ME attempts to launch the	The USS shall handle the request of
	WIE 7000	session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
		in LAUNCH BROWSER command.	•
8	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
9	$USER \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND	
10		PENDING: LAUNCH BROWSER	
		5.1.2	
11	$ME \rightarrow UICC$	FETCH	
12	$UICC \rightarrow ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
	0.00 /	LAUNCH BROWSER 5.1.2	if not already launched", no null alpha id]
13	$ME \to USER$	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	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
4.5	ME 11100	launch browser.	[Company on all months was and give a section of the distriction of the company o
15	$ME \rightarrow UICC$	BROWSER 5.1.1	[Command performed successfully]
16	ME LICO	The ME attempts to launch the	The USS shall handle the request of
10	$ME \rightarrow USS$	session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
		in LAUNCH BROWSER command.	
17	$UICC \to ME$	PROACTIVE UICC SESSION	
	· · · · · · · · · · · · · · · · · · ·	ENDED	
18	$USER \to ME$	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 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 "Defined URL 2"

## Coding:

BER-TLV:	D0	2C	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	0D	44	65	66
	69	6E	65	64	20	55	52	4C	20	32		

#### TERMINAL RESPONSE: LAUNCH BROWSER 5.1.1

## Logically:

Command details

Command number:

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

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00
DLIX ILV.	O I	00	01	10	00	02	02	02	01	00	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER	
		5.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 5.2.1	if not already launched", no null alpha id]
4	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with center
_	LICED ME	The year may have to confirm the	alignment]
5	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
6	ME → UICC	launch browser.	[Command performed successfully]
0	IVIE → UICC	BROWSER 5.2.1	[Confinant penomied successibility]
7	ME→USS	The ME attempts to launch the	The USS shall handle the request of
,	WIE 7000	session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
		in LAUNCH BROWSER command.	•
8	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
9	$USER \to ME$	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	
10	UICC → ME	ME to the idle screen. PROACTIVE COMMAND	
10		PENDING: LAUNCH BROWSER	
		5.2.2	
11	$ME \rightarrow UICC$	FETCH	
12	UICC → ME	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
. –	0.00 /	LAUNCH BROWSER 5.2.2	if not already launched", no null alpha id]
13	$ME \rightarrow USER$	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	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
1		launch browser.	
15	$ME \rightarrow UICC$		[Command performed successfully]
10	ME	BROWSER 5.2.1	IThe LICC shall handle the required of
16	$ME \rightarrow USS$	The ME attempts to launch the	[The USS shall handle the request of
		session with the default Wap parameters and the URL specified	additional URLs as defined in the initial conditions section]
		in LAUNCH BROWSER command.	Conditions section]
17	$UICC \to ME$	PROACTIVE UICC SESSION	
''		ENDED	
18	$USER \to ME$	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 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 "Defined URL 2"

Coding:

BER-TLV:	D0	2C	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	0D	44	65	66
	69	6E	65	64	20	55	52	4C	20	32		

## TERMINAL RESPONSE: LAUNCH BROWSER 5.2.1

#### Logically:

Command details

Command number:

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

BER-TLV:	81	03	01	15	00	82	02	82	81	83	01	00
DLIX ILV.	O I	00	01	10	00	02	02	02	01	00	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 specified URL with Text Attribute – Right Alignment)

Step	Direction	MESSAGE / Action	Comments
0	ME		[The ME is in idle mode and the browser's
		DDC A OTIVE COLUMNIS	cache shall have been cleared.]
1	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER	
		5.3.1	
2	$ME \to UICC$	FETCH	
3	UICC → ME	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
	0.00 /	LAUNCH BROWSER 5.3.1	if not already launched", no null alpha id]
4	$ME \to USER$	ME displays the alpha identifier	[alpha identifier is displayed with right
_			alignment]
5	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
6	ME  o UICC	launch browser.	[Command performed successfully]
	IVIE → UICC	BROWSER 5.3.1	[Confinant performed successibility]
7	ME→USS	The ME attempts to launch the	The USS shall handle the request of
		session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
		in LAUNCH BROWSER command.	
8	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9	$USER \to ME$	The user verifies that the default	
	OOLIK 7 WIL	Wap session is properly	
		established.	
		The user shall attempt to close the	
		browser or shall at least set the	
40	LUCO ME	ME to the idle screen.	
10	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER	
		5.3.2	
11	$ME \to UICC$	FETCH	
12	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 5.3.2	if not already launched", no null alpha id]
13	$ME \rightarrow USER$	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	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
	302 / III.	launch browser.	
15	$ME \to UICC$		[Command performed successfully]
1.0		BROWSER 5.3.1	
16	$ME \rightarrow USS$	The ME attempts to launch the	[The USS shall handle the request of
		session with the default Wap parameters and the URL specified	additional URLs as defined in the initial conditions section]
		in LAUNCH BROWSER command.	oonanono oodionj
17	$UICC \to ME$	PROACTIVE UICC SESSION	
	· <del>-</del>	ENDED	
18	$USER \to ME$	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined URL 2"

Coding:

BER-TLV:	D0	2C	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	0D	44	65	66
	69	6F	65	64	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

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, clause 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 specified URL with Text Attribute – Large Font Size)

Step	Direction	MESSAGE / Action	Comments
0	ME		[The ME is in idle mode and the browser's
1	$UICC \to ME$	PROACTIVE COMMAND	cache shall have been cleared.]
'	OICC → IVIE	PENDING: LAUNCH BROWSER	
		5.4.1	
2	ME → UICC	FETCH	I seem set to the defined LIDI. We use hereuses
3	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 5.4.1	[connect to the defined URL, "launch browser, if not already launched", no null alpha id]
4	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with large font
_			size]
5	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
6	$ME \rightarrow UICC$		[Command performed successfully]
		BROWSER 5.4.1	
7	ME→USS	The ME attempts to launch the	[The USS shall handle the request of additional URLs as defined in the initial
		session with the default Wap parameters and the URL specified	conditional ORLs as defined in the initial
		in LAUNCH BROWSER command.	,
8	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9	$USER \to ME$	The user verifies that the default	
	OOLIK 7 MIL	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER 5.4.2	
11	$ME \rightarrow UICC$	FETCH	
12	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
10	ME LIGED	LAUNCH BROWSER 5.4.2	if not already launched", no null alpha id]
13	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
14	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
4.5	ME 11100	launch browser.	
15	$ME \rightarrow UICC$	BROWSER 5.4.1	[Command performed successfully]
16	$ME \to USS$	The ME attempts to launch the	[The USS shall handle the request of
		session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified in LAUNCH BROWSER command.	conditions section]
17	$UICC \to ME$	PROACTIVE UICC SESSION	
40	LIGER ME	ENDED	
18	$USER \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER	
20	ME  o UICC	5.4.1 FETCH	
21	$UICC \rightarrow ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 5.4.1	if not already launched", no null alpha id]
22	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with large font size]
23	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
		launch browser.	
24	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1	[Command performed successfully]
25	ME→USS	The ME attempts to launch the	The USS shall handle the request of
	, , , , ,	session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
1		in LAUNCH BROWSER command.	1

26	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
27	$USER \to ME$	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.	
28	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER	
		5.4.3	
29	$ME \rightarrow UICC$	FETCH	
30	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
0.4		LAUNCH BROWSER 5.4.3	if not already launched", no null alpha id]
31	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
32	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
33	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH BROWSER 5.4.1	[Command performed successfully]
34	$ME \rightarrow USS$	The ME attempts to launch the	[The USS shall handle the request of
		session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified in LAUNCH BROWSER command.	conditions section]
35	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
36	$USER \to ME$	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined URL 3"

Coding:

BER-TLV:	D0	2C	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	0D	44	65	66
	69	6E	65	64	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

751

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.

752

27.22.4.26.5.5.4.2 Procedure

Expected Sequence 5.5 (LAUNCH BROWSER, connect to the specified URL with Text Attribute – Small Font Size)

Step	Direction	MESSAGE / Action	Comments
0	ME		[The ME is in idle mode and the browser's
1	$UICC \to ME$	PROACTIVE COMMAND	cache shall have been cleared.]
'	OICC → IVIE	PENDING: LAUNCH BROWSER	
		5.5.1	
2	ME → UICC	FETCH	I seem set to the defined LIDI. We use hereuses
3	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 5.5.1	[connect to the defined URL, "launch browser, if not already launched", no null alpha id]
4	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with small font
_			size]
5	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
6	$ME \rightarrow UICC$		[Command performed successfully]
		BROWSER 5.5.1	
7	ME→USS	The ME attempts to launch the	[The USS shall handle the request of additional URLs as defined in the initial
		session with the default Wap parameters and the URL specified	conditional ORLs as defined in the initial
		in LAUNCH BROWSER command.	consulation decision,
8	$UICC \to ME$	PROACTIVE UICC SESSION	
9	$USER \to ME$	ENDED The user verifies that the default	
	OOLIK 7 MIL	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER 5.5.2	
11	$ME \rightarrow UICC$	FETCH	
12	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
10	ME LIGED	LAUNCH BROWSER 5.5.2	if not already launched", no null alpha id]
13	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
14	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
4.5	ME 11100	launch browser.	
15	$ME \rightarrow UICC$	BROWSER 5.5.1	[Command performed successfully]
16	$ME \to USS$	The ME attempts to launch the	[The USS shall handle the request of
		session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified in LAUNCH BROWSER command.	conditions section]
17	$UICC \to ME$	PROACTIVE UICC SESSION	
40	LIGER ME	ENDED	
18	$USER \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER	
20	ME  o UICC	5.5.1 FETCH	
21	$UICC \rightarrow ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 5.5.1	if not already launched", no null alpha id]
22	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with small font size]
23	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
		launch browser.	
24	$ME \rightarrow UICC$		[Command performed successfully]
25	ME→USS	BROWSER 5.5.1 The ME attempts to launch the	The USS shall handle the request of
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
1	l	in LAUNCH BROWSER command.	1

26	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
27	$USER \to ME$	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	
28	$UICC \to ME$	ME to the idle screen. PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.5.3	
29	$ME \to UICC$	FETCH	
30	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 5.5.3	[connect to the defined URL, "launch browser, if not already launched", no null alpha id]
31	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with normal font size]
32	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
33	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH BROWSER 5.5.1	[Command performed successfully]
34	$ME \rightarrow USS$	The ME attempts to launch the session with the default Wap parameters and the URL specified in LAUNCH BROWSER command.	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
35	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
36	$USER \to ME$	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined URL 3"

Coding:

BER-TLV:	D0	2C	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	0D	44	65	66
	69	6E	65	64	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

756

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 specified 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER	Stanto Shan have been dealed.]
2	ME → UICC	5.6.1 FETCH	
3	$UICC \to DICC$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 5.6.1	if not already launched", no null alpha id]
4 5	$ME \rightarrow USER$ $USER \rightarrow ME$	ME displays the alpha identifier The user may have to confirm the	[alpha identifier is displayed with bold on] [option: user confirmation]
6	$ME \rightarrow UICC$	launch browser.	[Command performed successfully]
		BROWSER 5.6.1	
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the URL specified	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
8	$UICC \to ME$	in LAUNCH BROWSER command. PROACTIVE UICC SESSION ENDED	
9	$USER \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER	
		5.6.2	
11	ME → UICC	FETCH	France tto the defined LIDI. We use he have used
12	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 5.6.2	[connect to the defined 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	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
15	$ME \to UICC$	BROWSER 5.6.1	[Command performed successfully]
16	$ME \rightarrow USS$	The ME attempts to launch the session with the default Wap	[The USS shall handle the request of additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
17	$UICC \to ME$	in LAUNCH BROWSER command. PROACTIVE UICC SESSION ENDED	
18	$USER \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.6.1	
20	$ME \to UICC$	FETCH	
21	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 5.6.1	[connect to the defined 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	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
24	$ME \to UICC$		[Command performed successfully]
25	$ME \to USS$	The ME attempts to launch the session with the default Wap	[The USS shall handle the request of additional URLs as defined in the initial
26	$UICC \to ME$	parameters and the URL specified in LAUNCH BROWSER command. PROACTIVE UICC SESSION	conditions section]
1		ENDED	

27	$USER \to ME$	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.	
28	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.6.3	
29	$ME \rightarrow UICC$	FETCH	
30	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 5.6.3	if not already launched", no null alpha id]
31	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with bold off]
32	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
33	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH BROWSER 5.6.1	[Command performed successfully]
34	$ME \to USS$	The ME attempts to launch the session with the default Wap parameters and the URL specified in LAUNCH BROWSER command.	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
35	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
36	$USER \to ME$	The user verifies that the default Wap session is properly established.	

## PROACTIVE COMMAND: LAUNCH BROWSER 5.6.1

## Logically:

Command details

Command number:

Command type: LAUNCH BROWSER

Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC Destination device: ME

URL <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	20	55	52	4C	20	31	D0	04
	00	ΩD	10	R4								

## 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 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 "Defined URL 3"

Coding:

BER-TLV:	D0	2C	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	0D	44	65	66
	69	6F	65	64	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, clause 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 specified URL with Text Attribute – Italic On)

Step	Direction	MESSAGE / Action	Comments
0	ME		[The ME is in idle mode and the browser's
4		DDC A CTIVE COMMAND	cache shall have been cleared.]
1	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER	
		5.7.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
4	$ME \to USER$	LAUNCH BROWSER 5.7.1 ME displays the alpha identifier	if not already launched", no null alpha id] [alpha identifier is displayed with italic on]
5	USER → ME	The user may have to confirm the	[apria identifier is displayed with italic on] [option: user confirmation]
	002.1	launch browser.	
6	$ME \rightarrow UICC$		[Command performed successfully]
7	ME→USS	BROWSER 5.7.1 The ME attempts to launch the	The USS shall handle the request of
,	WL→000	session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
8	LUCC ME	in LAUNCH BROWSER command. PROACTIVE UICC SESSION	
0	$UICC \to ME$	ENDED	
9	$USER \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER	
		5.7.2	
11	$ME \to UICC$	FETCH	
12	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
13	ME  o USER	LAUNCH BROWSER 5.7.2 ME displays the alpha identifier	if not already launched", no null alpha id] [alpha identifier is displayed with italic off]
14	USER → ME	The user may have to confirm the	[option: user confirmation]
		launch browser.	
15	$ME \rightarrow UICC$	BROWSER 5.7.1	[Command performed successfully]
16	$ME \to USS$	The ME attempts to launch the	[The USS shall handle the request of
		session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified in LAUNCH BROWSER command.	conditions section]
17	$UICC \to ME$	PROACTIVE UICC SESSION	
		ENDED	
18	$USER \to ME$	The user verifies that the default Wap session is properly	
		lestablished.	
		The user shall attempt to close the	
		browser or shall at least set the ME to the idle screen.	
19	$UICC \to ME$	PROACTIVE COMMAND	
	, , , , , , , , , , , , , , , , , , ,	PENDING: LAUNCH BROWSER	
20	ME LUCC	5.7.1 FETCH	
20 21	$ME \to UICC$ $UICC \to ME$	PROACTIVE COMMAND:	connect to the defined URL, "launch browser,
	O.CO / IVIL	LAUNCH BROWSER 5.7.1	if not already launched", no null alpha id]
22		ME displays the alpha identifier	[alpha identifier is displayed with italic on]
23	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
24	$ME \rightarrow UICC$		[Command performed successfully]
		BROWSER 5.7.1	
25	$ME \to USS$	The ME attempts to launch the	[The USS shall handle the request of additional URLs as defined in the initial
		session with the default Wap parameters and the URL specified	conditions section]
		in LAUNCH BROWSER command.	,
26	$UICC \to ME$	PROACTIVE UICC SESSION	
	I	ENDED	I

27	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.	
28	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.7.3	
29	$ME \rightarrow UICC$	FETCH	
30	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 5.7.3	[connect to the defined URL, "launch browser, if not already launched", no null alpha id]
31	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with italic off]
32	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
33	$ME \rightarrow UICC$	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 URL specified in LAUNCH BROWSER command.	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
35	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
36	$USER \to ME$	The user verifies that the default Wap session is properly established.	

## PROACTIVE COMMAND: LAUNCH BROWSER 5.7.1

# Logically:

Command details

Command number:

Command type: LAUNCH BROWSER

Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC Destination device: ME

URL <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	20	55	52	4C	20	31	D0	04
	00	ΩD	20	R4								

## 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	20	55	52	4C	20	32	D0	04
	00	0D	00	B4								

#### PROACTIVE COMMAND: LAUNCH BROWSER 5.7.3

## Logically:

Command details

Command number:

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 "Defined URL 3"

Coding:

BER-TLV:	D0	2C	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	0D	44	65	66
	69	6F	65	64	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, clause 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 specified 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER	cache shall have been cleared.
2	ME → UICC	5.8.1 FETCH	
3	UICC → ME	PROACTIVE COMMAND: LAUNCH BROWSER 5.8.1	[connect to the defined 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	$ME \rightarrow UICC$		[Command performed successfully]
7	ME→USS	The ME attempts to launch the session with the default Wap parameters and the URL specified	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
8	$UICC \to ME$	in LAUNCH BROWSER command. PROACTIVE UICC SESSION ENDED	
9	$USER \to ME$	The user verifies that the default Wap session is properly	
10	UICC → ME	established. The user shall attempt to close the browser or shall at least set the ME to the idle screen. PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER 5.8.2	
11	ME → UICC	FETCH	I see the state of the state of LIDI. He work have your
12	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 5.8.2	[connect to the defined URL, "launch browser, if not already launched", no null alpha id]
13	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with underline off]
14	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
15	$ME \rightarrow UICC$	launch browser. TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1	[Command performed successfully]
16	$ME \to USS$	The ME attempts to launch the session with the default Wap	[The USS shall handle the request of additional URLs as defined in the initial
17	$UICC \to ME$	parameters and the URL specified in LAUNCH BROWSER command. PROACTIVE UICC SESSION ENDED	conditions section]
18	$USER \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.8.1	
20 21	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
22	ME → USER	LAUNCH BROWSER 5.8.1 ME displays the alpha identifier The user may have to confirm the	if not already launched", no null alpha id] [alpha identifier is displayed with underline on]
23	$\begin{array}{c} USER \to ME \\ ME \to UICC \end{array}$	The user may have to confirm the launch browser.  TERMINAL RESPONSE: LAUNCH	[option: user confirmation] [Command performed successfully]
		BROWSER 5.8.1	
25	ME → USS	The ME attempts to launch the session with the default Wap parameters and the URL specified	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
26	$UICC \to ME$	in LAUNCH BROWSER command. PROACTIVE UICC SESSION ENDED	-

27	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.	
28	$UICC \to ME$	PROACTIVE COMMAND PENDING: LAUNCH BROWSER 5.8.3	
29	$ME \rightarrow UICC$	FETCH	
30	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 5.8.3	if not already launched", no null alpha id]
31	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with underline off]
32	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
33	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH BROWSER 5.8.1	[Command performed successfully]
34	$ME \rightarrow USS$	The ME attempts to launch the session with the default Wap parameters and the URL specified in LAUNCH BROWSER command.	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
35	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
36	$USER \to ME$	The user verifies that the default Wap session is properly established.	

## PROACTIVE COMMAND: LAUNCH BROWSER 5.8.1

# Logically:

Command details

Command number:

Command type: LAUNCH BROWSER

Command qualifier: launch browser, if not already launched

Device identities

Source device: UICC Destination device: ME

URL <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	20	55	52	4C	20	31	D0	04
	00	ΩD	40	R4								

## 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	20	55	52	4C	20	32	D0	04
	00	0D	00	B4								

## PROACTIVE COMMAND: LAUNCH BROWSER 5.8.3

## Logically:

Command details

Command number:

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 "Defined URL 3"

Coding:

BER-TLV:	D0	2C	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	0D	44	65	66
	69	6F	65	64	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, clause 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 specified 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	$UICC \to ME$	PROACTIVE COMMAND	_
		PENDING: LAUNCH BROWSER	
2	ME SUICO	5.9.1 FETCH	
2	$ME \to UICC$ $UICC \to ME$	FETCH PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 5.9.1	if not already launched", no null alpha id]
4	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough
	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	on]
5	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
		launch browser.	
6	$ME \rightarrow UICC$	BROWSER 5.9.1	[Command performed successfully]
7	ME→USS	The ME attempts to launch the	The USS shall handle the request of
'	WL→000	session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
		in LAUNCH BROWSER command.	•
8	$UICC \to ME$	PROACTIVE UICC SESSION	
	LICED ME	ENDED The user verifies that the default	
9	$USER \to ME$	The user verifies that the default Wap session is properly	
		lestablished.	
		The user shall attempt to close the	
		browser or shall at least set the	
		ME to the idle screen.	
10	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER 5.9.2	
11	$ME \to UICC$	FETCH	
12	UICC → ME	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
		LAUNCH BROWSER 5.9.2	if not already launched", no null alpha id]
13	$ME \to USER$	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough
		The	off]
14	$USER \to ME$	The user may have to confirm the launch browser.	[option: user confirmation]
15	ME  o UICC		[Command performed successfully]
	WIL - UICC	BROWSER 5.9.1	[25and portormod adoptionally]
16	$ME \to USS$	The ME attempts to launch the	[The USS shall handle the request of
		session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
17	LUCC	in LAUNCH BROWSER command.	
17	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
18	$USER \to ME$	The user verifies that the default	
	/ <b>_</b>	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	$UICC \to ME$	PROACTIVE COMMAND	
19		PENDING: LAUNCH BROWSER	
		5.9.1	
20	$ME \to UICC$	FETCH	
21	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
00	ME LIGHT	LAUNCH BROWSER 5.9.1	if not already launched", no null alpha id]
22	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough on]
23	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
	JOLIN 7 IVIL	launch browser.	1
24	$ME \to UICC$	TERMINAL RESPONSE: LAUNCH	[Command performed successfully]
_		BROWSER 5.9.1	
25	$ME \to USS$	The ME attempts to launch the	[The USS shall handle the request of
		session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified in LAUNCH BROWSER command.	conditions section]
1	l	I'' EVOIAOLI PICOMOET COMMINANO.	ı

26	$UICC \to ME$	PROACTIVE UICC SESSION	
07		ENDED	
27	$USER \to ME$	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.	
28	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER	
		5.9.3	
29	$ME \rightarrow UICC$	FETCH	
30	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
0.4		LAUNCH BROWSER 5.9.3	if not already launched", no null alpha id]
31	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with strikethrough off]
32	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
		launch browser.	
33	$ME \rightarrow UICC$	TERMINAL RESPONSE: LAUNCH	[Command performed successfully]
		BROWSER 5.9.1	
34	$ME \rightarrow USS$	The ME attempts to launch the	[The USS shall handle the request of
		session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified in LAUNCH BROWSER command.	conditions section]
35	LUCC ME	PROACTIVE UICC SESSION	
33	$UICC \to ME$	ENDED	
36	$USER \to ME$	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined URL 3"

Coding:

BER-TLV:	D0	2C	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	0D	44	65	66
	69	6E	65	64	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

776

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, clause 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 specified 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: LAUNCH BROWSER	
2	$ME \to UICC$	5.10.1 FETCH	
3	WE → OICC UICC → ME	PROACTIVE COMMAND:	connect to the defined URL, "launch browser,
	OICC - IVIL	LAUNCH BROWSER 5.10.1	if not already launched", no null alpha id]
4	$ME \rightarrow USER$	ME displays the alpha identifier	[alpha identifier is displayed with foreground
			and background colour according to the text
			attribute configuration]
5	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
6	ME IIIOO	launch browser. TERMINAL RESPONSE: LAUNCH	[Command parformed augeocafully]
6	$ME \rightarrow UICC$	BROWSER 5.10.1	[Command performed successfully]
7	$ME { ightarrow} USS$	The ME attempts to launch the	[The USS shall handle the request of
		session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified in LAUNCH BROWSER command.	conditions section]
8	$UICC \to ME$	PROACTIVE UICC SESSION	
	OIOO / IVIL	ENDED	
9	$USER \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND	
	0.00 / 1.1.2	PENDING: LAUNCH BROWSER	
		5.10.2	
11	$ME \to UICC$	FETCH	
12	$UICC \to ME$	PROACTIVE COMMAND:	[connect to the defined URL, "launch browser,
13	ME LICED	LAUNCH BROWSER 5.10.2 ME displays the alpha identifier	if not already launched", no null alpha id] [alpha identifier is displayed with ME's default
13	$ME \rightarrow USER$	ivic displays the alpha identifier	foreground and background colour
14	$USER \to ME$	The user may have to confirm the	[option: user confirmation]
	202 / 1112	launch browser.	
15	$ME \to UICC$	TERMINAL RESPONSE: LAUNCH BROWSER 5.10.1	[Command performed successfully]
16	$ME \to USS$	The ME attempts to launch the	The USS shall handle the request of
		session with the default Wap	additional URLs as defined in the initial
		parameters and the URL specified	conditions section]
		in LAUNCH BROWSER command.	
17	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
18	$USER \to ME$	The user verifies that the default	
10	USER → IVIE	Wap session is properly	
		lestablished.	
		1	ı

# 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined 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	32	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	0D	44	65	66
	69	6E	65	64	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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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 "Defined URL 2"

Coding:

BER-TLV:	D0	2C	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	0D	44	65	66
	69	6F	65	64	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 specified URL, UCS2 in Chinese)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a Wap	[Browser is in use, the current session is not
1	$UICC \to ME$	session (not the URL specified in the test sequence). PROACTIVE COMMAND PENDING: LAUNCH BROWSER 6.1.1	secured]
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 6.1.1	[connect to the defined URL, "use the existing browser", alpha id. In UCS2]
4	$ME \rightarrow USER$	ME displays the alpha identifier "你好"	["Hello" in Chinese]
5	$USER \to ME$	The user confirms the launch browser.	[user confirmation]
6	$ME \to UICC$	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 URL specified in LAUNCH BROWSER command.	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
8	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9	USER → ME	The user verifies that the 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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

Data coding scheme: UCS2 (16 bits)

Text: "你好"

## Coding:

BER-TLV:	D0	24	81	03	01	15	02	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	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 specified URL, UCS2 in Katakana)

Step	Direction	MESSAGE / Action	Comments
0	ME	The user is navigating in a Wap	[Browser is in use, the current session is not
1	$UICC \to ME$	session (not the URL defined in the test sequence). PROACTIVE COMMAND PENDING: LAUNCH BROWSER 7.1.1	secured]]
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: LAUNCH BROWSER 7.1.1	[connect to the defined URL, "use the existing browser", alpha id. In UCS2]
4	$ME \rightarrow USER$	ME displays the alpha identifier "ル"	[Character in Katakana]
5	$USER \to ME$	The user confirms the launch browser.	[user confirmation]
6	$ME \rightarrow UICC$	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 URL specified in LAUNCH BROWSER command.	[The USS shall handle the request of additional URLs as defined in the initial conditions section]
8	$UICC \to ME$	PROACTIVE UICC SESSION ENDED	
9	$USER \ \to ME$	The user verifies that the 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 <a href="http://xxx.yyy.zzz">http://xxx.yyy.zzz</a> (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

Data coding scheme: UCS2 (16 bits)

Text: "ル"

# Coding:

BER-TLV:	D0	22	81	03	01	15	02	82	02	81	82	31
	00	05	03	80	30	EB						
	12	68	74	74	70	3A	2F	2F	78	78	78	2E
	79	79	79	2E	7A	7A	7A	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:

В	ER-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 void**

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

#### PROACTIVE COMMAND: OPEN CHANNEL 2.1.1

#### Logically:

Command details

Command number:

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	80
	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	
		CHANNEL 2.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 2.2.1	
4	$ME \rightarrow user$	The ME may display channel opening information	
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6
			address as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 2.2.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE: OPEN CHANNEL 2.2.1B	

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

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	
		CHANNEL 2.3.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 2.3.1	
4	$ME \rightarrow user$	Confirmation phase with alpha ID	"Open ID"
5	$user \to ME$	The user confirms	
6	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
7	$USS \to ME$	PDP context activation accept	
8	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 2.1.1A	[Command performed successfully]
		or TERMINAL RESPONSE: OPEN CHANNEL 2.1.1B	

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

# 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: OPEN CHANNEL	
		2.5.1	
2	$ME \to UICC$		
3	$UICC \to ME$	PROACTIVE COMMAND:	
		OPEN CHANNEL 2.5.1	
4	$ME \rightarrow user$	The ME may display channel	
		opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
			as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \to UICC$	TERMINAL RESPONSE: OPEN	[Command performed with modification]
		CHANNEL 2.5.1A	
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 2.5.1B	

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

02 (IP) Packet data protocol:

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	80
	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:

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 03 Reliability Class: 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	$UICC \to ME$		
		PENDING: OPEN CHANNEL	
		2.7.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$		
		OPEN CHANNEL 2.7.1	
4	$ME \rightarrow user$	Confirmation phase with alpha	[The ME shall display "Open ID"]
		ID	
5	user $\rightarrow$ ME	The user rejects	
6	$ME \to USS$	No PDP context activation	
		request is sent to the USS	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	[User did not accept the proactive command]
		CHANNEL 2.7.1A	
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 2.7.1B	

# 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	$UICC \to ME$		
		PENDING: OPEN CHANNEL	
		2.7.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$		
		OPEN CHANNEL 2.7.1	
4	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
			as PDP type.]
5	$USS \to ME$	PDP context activation accept	
6	$ME \rightarrow user$	Confirmation phase with alpha	[The ME shall display "Open ID"]
		ID	
7	user $\rightarrow$ ME	The user rejects	
8	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	[User did not accept the proactive command]
		CHANNEL 2.7.1A	
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 2.7.1B	

## PROACTIVE COMMAND: OPEN CHANNEL 2.7.1

## Logically:

Command details

Command number:

**OPEN CHANNEL** Command type:

Command qualifier: immediate link establishment

Device identities

Source device: **UICC** Destination device: ME

Alpha Identifier "Open ID"

Bearer

**GPRS** Bearer type:

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	02	Note 2		
									F				
	Note1:	The pre	The presence and content of the Channel Status TLV shall not be verified.										
	Note2:	The buffer size TLV shall be present and because the value depends in this											
		case or	n the te	rminal's	s impler	mentati	on, the	value s	hall b	e ign	ored.		

## TERMINAL RESPONSE: OPEN CHANNEL 2.7.1B

#### Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME
Destination device: UICC

Result

General Result: User did not accept the proactive command

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

Bearer type: GPRS

Bearer parameter:

Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

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

ignored.

## Coding:

BER-TLV:	81	03	01	40	01	82	02	82	81	83	01	22	
	Note 1	35	07	02	00	04	03	04	1	02	Note 2		
									F				
	Note1:	The pre	esence	and co	ntent of	f the Ch	nannel	Status <sup>-</sup>	TLV s	hall n	ot be verifi	ed.	
	Note2:	The bu	ffer size	e TLV s	hall be	presen	t and b	ecause	the v	alue	depends in	this	
		te2: 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	
		CHANNEL 2.9.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 2.9.1	
4	$ME \rightarrow user$	The ME may display channel opening information	
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6
			address as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 2.9.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE: OPEN CHANNEL 2.9.1B	

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

PROACTIVE COMMAND: OPEN CHANNEL 2.10.1

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC Destination device: ME

Alpha Identifier Null

Buffer

Buffer size: 1400

UICC/terminal interface transport level

Transport format: TCP, UICC in server mode

Port number: 3516

Coding:

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

TERMINAL RESPONSE: OPEN CHANNEL 2.10.1

## Logically:

Command details

Command number:

Command type: OPEN CHANNEL

Command qualifier: RFU

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Channel status Channel identifier 1 and TCP in LISTEN state

Buffer

Buffer size: 1400

Coding:

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

## PROACTIVE COMMAND: OPEN CHANNEL 2.10.2

## Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC Destination device: ME

Bearer

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

Bearer parameter:

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400 Network access name: TestGp.rs

Text String: UserLog (User login)
Text String: UserPwd (User password)

UICC/ME interface transport level Transport format: TCP

Port number: 44444
Data destination address 01.01.01.01

Coding:

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

TERMINAL RESPONSE: OPEN CHANNEL 2.10.2A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer Description:

Bearer Type: GPRS

Bearer parameter:

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size 1400

Coding:

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

TERMINAL RESPONSE: OPEN CHANNEL 2.10.2B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer Description:

Bearer Type: GPRS

Bearer parameter:

Precedence Class: 00
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size 1400

Coding:

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

## 27.22.4.27.2.5 Test requirement

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

## 27.22.4.27.3 Open Channel (default bearer)

## 27.22.4.27.3.1 Open Channel (default bearer, E-UTRAN)

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

# 27.22.4.27.3.2 Open Channel (Default bearer, GERAN/UTRAN)

#### 27.22.4.27.3.2.1 Definition and applicability

See clause 3.2.2.

## 27.22.4.27.3.2.2 Conformance requirements

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

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

#### 27.22.4.27.3.2.3 Test purpose

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

## 27.22.4.27.3.2.4 Method of test

# 27.22.4.27.3.2.4.1 Initial conditions

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

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

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

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

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

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

#### Bearer Parameters

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

#### **GPRS** Parameters

Network access name: TestGp.rs User login: UserLog User password: UserPwd

## UICC/ME interface transport level

Transport format: TCP mode Port number: 44444

Data destination address 01.01.01.01 (as an example)

Note: If a data destination address different to 01.01.01.01 is used then the same value is

used in the content of the affected Open Channel commands and the network simulator setup and related UE settings might require a corresponding adaptation.

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

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

# 27.22.4.27.3.2.4.2 Procedure

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

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

## PROACTIVE COMMAND: OPEN CHANNEL 3.1.1

#### Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment, automatic reconnection

Device identities

Source device: UICC
Destination device: ME
Alpha Identifier Null

Bearer

Bearer type: Default bearer for requested transport layer

Buffer

Buffer size: 1400 UICC/ME interface transport level

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

Port number: 44444
Data destination address 01.01.01.01

Coding:

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

#### TERMINAL RESPONSE: OPEN CHANNEL 3.1.1A

## Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment, automatic reconnection

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer

Bearer type: Default bearer for requested transport layer

Buffer

Buffer size: 1400

Coding:

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

## TERMINAL RESPONSE: OPEN CHANNEL 3.1.1B

## Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment, automatic reconnection

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

## Coding:

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

## 27.22.4.27.3.2.5 Test requirement

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

## 27.22.4.27.4 Open Channel (Local Bearer)

**TBD** 

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

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

## 27.22.4.27.5.1.1 Definition and applicability

See clause 3.2.2.

#### 27.22.4.27.5.1.2 Conformance requirements

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

- TS 31.111 [15].

#### 27.22.4.27.5.1.3 Test purpose

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

#### 27.22.4.27.5.1.4 Method of test

#### 27.22.4.27.5.1.4.1 Initial conditions

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

The elementary files are coded as Toolkit default.

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

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

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

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

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.2.4.1

GPRS Parameters: Same GPRS Parameters as defined in 27.22.4.27.2.4.1

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

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

27.22.4.27.5.1.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND PENDING : OPEN	
		CHANNEL 5.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \rightarrow ME$	PROACTIVE COMMAND : OPEN CHANNEL	
		5.1.1	
4	ME → USER	Confirmation phase with alpha ID	[alpha identifier is displayed with left alignment]
5		The user confirms	
6		PDP context activation request	[The UE may request IPv4 or IPv4v6 address as
		11.11.11.11.11.11.11.11.11.11.11.11.11.	PDP type.]
7	$USS \rightarrow ME$	PDP context activation accept	
8		TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
		5.1.1A	
		or	
		TERMINAL RESPONSE: OPEN CHANNEL	
		5.1.1B	
9	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE	
		CHANNEL 5.1.1	
10	$ME \rightarrow UICC$		
11	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
		5.1.1	
12		PDP context deactivation request	
13		PDP context deactivation accept	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
		5.1.1	
15	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	
40		CHANNEL 5.1.2	
16	ME → UICC		
17	OICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.1.2	
18	ME LIGED	Confirmation phase with alpha ID	[Message shall be formatted without left alignment.
'0	IVIL -> USLIX	Committation phase with alpha 15	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	2
20		PDP context activation request	[The UE may request IPv4 or IPv4v6 address as
		·	PDP type.]
21	$USS \to ME$	PDP context activation accept	
22	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
		5.1.1A	
		or	
		TERMINAL RESPONSE: OPEN CHANNEL	
		5.1.1B	
23	$UICC \rightarrow ME$	PROACTIVE COMMAND PENDING: CLOSE	
6.4	NAT	CHANNEL 5.1.1	
24	ME → UICC		
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL	
26	ME LICC	5.1.1 PDP context deactivation request	
26 27	ME → USS		
28	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$		[Command performed successfully]
20	INIE → DICC	5.1.1	
	l .	0.1.1	1

#### 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
D		00			00	U-	~ <u>~</u>	_ <del>_</del>	, o.			

#### 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	$UICC \to ME$	PROACTIVE COMMAND PENDING : OPEN	
		CHANNEL 5.2.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 5.2.1	
4	$ME \to USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with center alignment]
5	$USER \rightarrow ME$	The user confirms	
6	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
7	$USS \to ME$	PDP context activation accept	
8	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL 5.2.1A or	[Command performed successfully]
		TERMINAL RESPONSE : OPEN CHANNEL 5.2.1B	
9	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	$ME \to UICC$	FETCH	
11	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	$ME \to USS$	PDP context deactivation request	
13	$USS \to ME$	PDP context deactivation accept	
14	$ME \to UICC$	TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
		5.1.1	
15	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.2.2	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	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	$USER \to ME$	The user confirms	
20	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
21	$USS \to ME$	PDP context activation accept	
22	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL 5.2.1A	[Command performed successfully]
		or TERMINAL RESPONSE : OPEN CHANNEL 5.2.1B	
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	$ME \to UICC$	FETCH	
25	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	$ME \to USS$	PDP context deactivation request	
27	$USS \to ME$	PDP context deactivation accept	
28	$ME \to UICC$	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:

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:

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	$UICC \to ME$	PROACTIVE COMMAND PENDING : OPEN	
		CHANNEL 5.3.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL	
		5.3.1	
4	$ME \to USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with right alignment]
5	$USER \to ME$	The user confirms	
6	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as
		'	PDP type.]
7	$USS \to ME$	PDP context activation accept	
8	$ME \to UICC$	TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
		5.3.1A	
		or	
		TERMINAL RESPONSE : OPEN CHANNEL	
		5.3.1B	
9	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE	
		CHANNEL 5.1.1	
10	$ME \to UICC$	FETCH	
11	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
		5.1.1	
12	$ME \to USS$	PDP context deactivation request	
13	$USS \to ME$	PDP context deactivation accept	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
4-		5.1.1	
15	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	
40		CHANNEL 5.3.2	
16	ME → UICC	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 5.3.2	
18	$ME \rightarrow USER$	Confirmation phase with alpha ID	Message shall be formatted without right alignment.
10	IVIE → USER	Commitmation phase with alpha ib	Remark: If right alignment is the ME's default
			alignment as declared in table A.2/19, no alignment
			change will take place]
19	$USER \rightarrow ME$	The user confirms	Sindings in tanto place
20	ME → USS	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as
	/ 000		PDP type.]
21	$USS \to ME$	PDP context activation accept	
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
		5.3.1A	
		or	
		TERMINAL RESPONSE : OPEN CHANNEL	
		5.3.1B	
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE	
		CHANNEL 5.1.1	
24	$ME \rightarrow UICC$	FETCH	
25	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
		5.1.1	
26	$ME \rightarrow USS$	PDP context deactivation request	
27	$USS \to ME$	PDP context deactivation accept	
28	$ME \rightarrow UICC$	TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
		5.1.1	

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)

UICC → ME	Step	Direction	MESSAGE / Action	Comments
ME → UICC → ME   GoodTime Command : OPEN CHANNEL   S.4.1				Comments
Second Proposition   Second	_			
5.4.1   Susceptible   Susce				
The user confirms PDP context activation request PDP type.]  SS → ME SS → ME SS → ME DDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.4.14 Or TERMINAL RESPONSE : OPEN CHANNEL 5.4.15 Or TERMINAL RESPONSE : OPEN CHANNEL 5.4.16 Or TERMINAL RESPONSE : OPEN CHANNEL 5.4.17 Or TERMINAL RESPONSE : OPEN CHANNEL 5.4.18  UICC → ME DDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL TERMINAL RESPONSE : CLOSE CHANNEL SS → ME DDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL SS → ME DDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL SS → ME UICC → ME DDP context deactivation accept TERMINAL RESPONSE : OPEN CHANNEL SS → ME UICC → ME THE UICC OMMAND PENDING : OPEN CHANNEL SS → ME THE UICC OF COMMAND : OPEN CHANNEL SS → ME THE UICC OF COMMAND : OPEN CHANNEL SS → ME THE UICC OF COMMAND : OPEN CHANNEL SS → ME TERMINAL RESPONSE : OPEN CHANNEL SS → ME TERMINAL RESPONSE : OPEN CHANNEL SS → ME TERMINAL RESPONSE : OPEN CHANNEL SS → ME TERMINAL RESPONSE : OPEN CHANNEL SS → ME TERMINAL RESPONSE : OPEN CHANNEL SS → ME TOR OF COMMAND PENDING: CLOSE CHANNEL S.1.1 FETCH TERMINAL RESPONSE : OPEN CHANNEL SS → ME TOR OF COMMAND PENDING: CLOSE CHANNEL S.1.1 FETCH TERMINAL RESPONSE : CLOSE CHANNEL SS → ME TOR OF COMMAND PENDING: OPEN CHANNEL S.4.1 FETCH TERMINAL RESPONSE : CLOSE CHANNEL SS → ME TOR OF COMMAND PENDING: OPEN CHANNEL S.4.1 FETCH TERMINAL RESPONSE : OPEN CHANNEL SS → ME TOR OF COMMAND PENDING: OPEN CHANNEL S.4.1 TERMINAL RESPONSE : OPEN CHANNEL SS → ME TOR OF COMMAND PENDING: OPEN CHANNEL S.4.1 TERMINAL RESPONSE : OPEN CHANNEL SS → ME TOR OF COMMAND PENDING: OPEN CHANNEL S.4.1 TERMINAL RESPONSE : OPEN CHANNEL SS → ME TOR OF COMMAND PENDING: CLOSE CHANNEL S.4.1 TERMINAL RESPONSE : OPEN CHANNEL SS → ME TOR OF COMMAND PENDING: CLOSE CHANNEL S.4.1 TERMINAL RESPONSE : OPEN CHANNEL SS → ME TOR OF COMMAND PENDING: CLOSE CHANNEL S.4.1 TERMINAL RESPONSE : OPEN CHANNEL SS → ME TOR OF COMMAND PENDING: CLOSE CHAN	3	UICC → IVIE		
The UE may request IPv4 or IPv4v6 address as PDP type.]		$ME \to USER$		[alpha identifier is displayed with large font size]
PDP context activation accept   TERMINAL RESPONSE : OPEN CHANNEL   S.4.14   A or TERMINAL RESPONSE : OPEN CHANNEL   S.4.18   TERMINAL RESPONSE : OPEN CHANNEL   S.4.18   TERMINAL RESPONSE : OPEN CHANNEL   S.4.18   TERMINAL RESPONSE : OPEN CHANNEL   S.4.19   TERMINAL RESPONSE : OPEN CHANNEL   S.4.19   TERMINAL RESPONSE : CLOSE CHANNEL   S.4.19   TERMINAL RESPONSE : CLOSE CHANNEL   S.4.19   TERMINAL RESPONSE : CLOSE CHANNEL   S.4.10   TERMINAL RESPONSE : CLOSE CHANNEL   S.4.20   TERMINAL RESPONSE : CLOSE CHANNEL   S.4.20   TERMINAL RESPONSE : CLOSE CHANNEL   S.4.20   TERMINAL RESPONSE : OPEN CHANNEL   S.4.20   TERMINAL RESPONSE : OPEN CHANNEL   S.4.20   TERMINAL RESPONSE : OPEN CHANNEL   S.4.20   TERMINAL RESPONSE : OPEN CHANNEL   S.4.10   TERMINAL RESPONSE :				TT 115 115 1 15 1 0 11
7	Ь	ME → USS	PDP context activation request	
5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  ME → UICC → ME SPOACTIVE COMMAND: CLOSE CHANNEL 5.1.1  ME → UISS  ME → UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.2  ME → UISS  ME → UICC  ME → UICC  ME → UICC  ME → UICC  ME → UICS  ME → UICC  ME → UICS  ME →	7	$USS \to ME$		3/2-1
or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B  9 UICC → ME POACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  10 ME → UICC → ME POACTIVE COMMAND: CLOSE CHANNEL 5.1.1  11 UICC → ME POACTIVE COMMAND: CLOSE CHANNEL 5.1.1  12 ME → USS PDP context deactivation request PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1  15 UICC → ME POACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.2  16 ME → UICC TETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.2  17 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.2  18 ME → UISS COnfirmation phase with alpha ID THANNEL 5.4.1  19 USS → ME PDP context activation request PDP type.]  20 ME → USS PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B  21 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.4.1B  22 ME → UICC TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B  23 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  24 ME → UICC TERMINAL RESPONSE : CLOSE CHANNEL 5.4.1B  25 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  26 ME → UICC TETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1  27 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1  28 ME → UICC TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1  29 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  20 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  21 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  22 ME → UICC TERMINAL RESPONSE : OPEN CHANNEL 5.4.1  23 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  24 ME → UICC TERMINAL RESPONSE : OPEN CHANNEL 5.4.1  25 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  26 ME → UICC TERMINAL RESPONSE : OPEN CHANNEL 5.4.1  27 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  28 ME → UICC TERMINAL RESPONSE : OPEN CHANNEL 5.4.1  29 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  20 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  21 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  22 ME → UICC TERMINAL RESPONSE : OPEN CHANNEL 5.4.1  23 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL	8	$ME \to UICC$		[Command performed successfully]
TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  ME → UICC → ME STORY ME → UICC → ME PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  ME → UICC → ME PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  TO UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.2  ME → UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.2  ME → UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.4.2  ME → UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.4.1  ME → UICC ME → UICC FETCH UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.4.1  ME → UICC M				
9				
CHANNEL 5.1.1  ME → UICC → ME  VICC → ME  V		LUCO ME		
10 ME → UICC → ME STANDED STA	9	UICC → ME		
Sind   ME → USS   DPP context deactivation request   PDP context deactivation accept   TERMINAL RESPONSE : CLOSE CHANNEL   Command performed successfully		$ME \to UICC$	FETCH	
12	11	$UICC \to ME$		
13 USS → ME ME → UICC ME ME ME → UICC ME ME ME → UICC ME ME ME → UICC ME ME ME ME ME ME ME ME ME ME ME ME ME	12	$ME \to USS$		
15 UICC → ME			PDP context deactivation accept	
15 UICC → ME  16 ME → UICC  17 UICC → ME  18 ME → USER  19 USER → ME  20 USER → ME  21 USER → ME  22 UICC → ME  23 UICC → ME  24 ME → UICC  25 UICC → ME  26 ME → UICC  27 ME → UICC  28 ME → UICC  29 UICC → ME  20 ME → UICC  20 ME  21 USS → ME  22 ME → UICC  23 UICC → ME  24 ME → UICC  25 UICC → ME  26 ME → UICC  27 UICC → ME  28 ME → UICC  29 UICC → ME  29 UICC → ME  20 ME → UICC  30 ME → UICC  31 UICC → ME  30 ME → UICC  31 UICC → ME  32 ME → UICC  31 UICC → ME  33 UICC → ME  34 ME → UICC  35 UICC → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 UICC → ME  30 ME → UICC  30 ME → UICC  31 UICC → ME  32 ME → UICC  33 UICC → ME  34 ME → UICC  35 UICC → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 UICC → ME  30 ME → UICC  30 ME → UICC  31 UICC → ME  32 ME → UICC  33 USSR → ME  34 ME → UICC  35 USSR → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 UICC → ME  40 ME → UICC  41 PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  41 PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  42 POP context deactivation accept The user confirms  43 POP context activation request POP type.]  44 POP context activation request POP type.]  45 (Command performed successfully)  46 (Command performed successfully)  47 (Command performed successfully)  48 (Command performed successfully)  49 (Command performed successfully)  40 (Command performed successfully)  40 (Command performed successfully)  41 (Command performed successfully)  42 (Command performed successfully)  43 (Command performed successfully)  44 (Command performed successfully)  45 (Command performed successfully)  46 (Command performed successfully)  47 (Command performed successfully)  48 (Command performed successfully)  49 (Command performed successfully)  40 (Command performed successfully)  40 (Command performed successfully)  41 (Command performed successfully)  42 (Command performed successfully)  43 (Command performed successfully)  44 (Command performed successfully)  45 (Command performed successfully)	14	$ME \rightarrow UICC$		[Command performed successfully]
ME → UICC	15	$UICC \to ME$		
17 UICC → ME   18				
S.4.2   S.4.2   Confirmation phase with alpha ID   USER → ME   USER → ME   The user confirms   PDP context activation request   PDP type.]   The UE may request IPv4 or IPv4v6 address as PDP type.]   IThe UE may request IPv4 or IPv4v6 address as PDP type.]   ITHE MINING TERMINAL RESPONSE : OPEN CHANNEL 5.4.18   ITHE MINING TERMINAL RESPONSE : OPEN CHANNEL 5.4.18   ITHE MINING TERMINAL RESPONSE : OPEN CHANNEL 5.1.1   ITHE MINING TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1   ITHE MINING TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1   ITHE MINING TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1   ITHE MINING TERMINAL RESPONSE : OPEN CHANNEL 5.4.1   ITHE MINING TERMINAL RESPONSE :				
19 USER → ME ME → USS 21 USS → ME ME → UICC 22 ME → UICC → ME 23 UICC → ME 26 ME → UICC 23 UICC → ME 26 ME → UICC 24 ME → UICC → ME 27 ME → UICC 25 UICC → ME 28 ME → UICC 26 ME → UICC → ME 28 ME → UICC 27 UICC → ME 28 ME → UICC 28 ME → UICC → ME 28 ME → UICC 29 UICC → ME 28 ME → UICC → ME 29 UICC → ME 20 UICC → ME	''	OICC → IVIE		
20 ME → USS 21 USS → ME 22 ME → UICC 23 UICC → ME 24 ME → UICC 25 UICC → ME 26 ME → UICC 27 UICC → ME 28 ME → UICC 29 UICC → ME 29 UICC → ME 20 UICC → ME 21 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 31 UICC → ME 33 USS → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 USS → ME 39 USS → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 USS → ME 39 DP context activation request PDP tonext deactivation passe with alpha ID 4 ME → USS 4 ME → UICC 5 ME 4 ME → UICC 5 ME 5 ME → UICC 4 ME → UICC 5 ME 7 Command performed successfully]  [alpha identifier is displayed with large font size] [The UE may request IPv4 or IPv4v6 address as PDP type.] [The UE may request IPv4 or IPv4v6 address as PDP type.] [The UE may request IPv4 or IPv4v6 address as PDP type.] [Command performed successfully]  [The UE may request IPv4 or IPv4v6 address as PDP type.] [Command performed successfully] [The UE may request IPv4 or IPv4v6 address as PDP type.] [Command performed successfully] [The UE may request IPv4 or IPv4v6 address as PDP type.] [Command performed successfully] [The UE may request IPv4 or IPv4v6 address as PDP type.] [Command performed successfully]				[alpha identifier is displayed with normal font size]
21 USS → ME  22 ME → UICC  23 UICC → ME  24 ME → UICC  25 UICC → ME  26 ME → UICC  27 UICC → ME  28 ME → UICC  29 UICC → ME  29 UICC → ME  29 UICC → ME  29 UICC → ME  30 ME → UICC  31 UICC → ME  31 UICC → ME  32 ME → UICC  33 UICC → ME  34 ME → UICC  35 UICC → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 UICC → ME  30 ME → UICC  31 UICC → ME  31 UICC → ME  32 ME → UICC  33 USS → ME  34 ME → USS  35 USS → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 UICC → ME  30 ME → UICC  31 UICC → ME  32 ME → UICC  33 USER → ME  34 ME → USS  35 USS → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 UICC → ME  30 ME → UICC  30 ME → UICC  31 UICC → ME  32 ME → UICC  33 USER → ME  34 ME → USS  35 USS → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 UICC → ME  30 ME → UICC  30 ME → UICC  31 UICC → ME  32 ME → UICC  33 USER → ME  34 ME → USS  35 USS → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 PDP context activation request  30 PDP context activation request  31 UICC → ME  32 ME → UICC  33 USS → ME  34 ME → UICC  35 USS → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 PDP context activation accept  39 TERMINAL RESPONSE : OPEN CHANNEL  5.4.1A  50 OF ME  50 OF ME  50 OF ME  51 OF ME  51 OF ME  51 OF ME  51 OF ME  52 OF ME  53 OF ME  54 OF ME  54 OF ME  55 OF ME  56 OF ME  57 OF ME  57 OF ME  58 OF ME  59 OF ME  50 OF ME  50 OF ME  50 OF ME  51 OF ME  51 OF ME  51 OF ME  52 OF ME  53 OF ME  54 OF ME  55 OF ME  56 OF ME  57 OF ME  57 OF ME  58 OF ME  59 OF ME  50 OF ME  50 OF ME  50 OF ME  51 OF ME  51 OF ME  51 OF ME  52 OF ME  51 OF ME  51 OF ME  52 OF ME  51 OF ME  52 OF ME  54 OF ME  55 OF ME  56 OF ME  57 OF ME  57 OF ME  57 OF ME  58 OF ME  59 OF ME  50 OF ME  50 OF ME  50 OF ME  51 OF ME  51 OF ME  51 OF ME  51 OF ME  51 OF ME  52 OF ME  51 OF ME  52 OF ME  53 OF ME  54 OF ME  55 OF ME  56 OF ME  57 OF ME  57 OF ME  57 OF ME  58 OF ME  59 OF ME  50 OF ME  50 OF ME  50 OF ME  50 OF ME  51 OF ME  51 OF ME  51 OF ME  51 OF ME  51 OF ME  51 OF ME  51 OF ME  51 OF ME  52 OF ME  53 OF ME  54 OF ME  55 OF ME  56 OF				The LIE may request IPv4 or IPv4v6 address as
22 ME → UICC  33 UICC → ME  24 ME → UICC  25 UICC → ME  26 ME → UICC  27 UICC → ME  28 ME → UICC  29 UICC → ME  29 UICC → ME  30 ME → UICC  31 UICC → ME  31 UICC → ME  32 ME → UICC  31 UICC → ME  33 USER → ME  34 ME → USS  35 USS → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 UICC → ME  30 ME → UICC  31 UICC → ME  32 ME → UICC  33 USER → ME  34 ME → UICC  35 USS → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 UICC → ME  40 ME → UICC  41 ME → UICC  42 ME → UICC  43 UICC → ME  44 ME → UICC  45 ME → UICC  46 ME → UICC  47 ME → UICC  48 ME → UICC  49 UICC → ME  40 ME → UICC  40 ME → UICC  41 ME → UICC  41 ME → UICC  42 ME → UICC  43 USER → ME  44 ME → USS  46 ME → UICC  47 ME → USS  48 ME → UICC  49 ME → UICC  40 ME → UICC  40 ME → UICC  40 ME → UICC  41 ME → UICC  41 ME → UICC  42 ME → UICC  43 ME → UICC  44 ME → UICC  45 ME → UICC  46 ME → UICC  47 ME → UICC  48 ME → UICC  49 ME → UICC  40 ME → UICC  40 ME → UICC  41 ME → UICC  41 ME → UICC  42 ME → UICC  43 ME → UICC  44 ME → UICC  45 ME → UICC  46 ME → UICC  47 ME → UICC  48 ME → UICC  49 ME → UICC  40 ME → UICC  40 ME → UICC  40 ME → UICC  41 ME → UICC  41 ME → UICC  42 ME → UICC  43 ME → UICC  44 ME → UICC  45 ME → UICC  46 ME → UICC  47 ME → UICC  48 ME → UICC  49 ME → UICC  40 ME → UICC  40 ME → UICC  41 ME → UICC  41 ME → UICC  42 ME → UICC  42 ME → UICC  43 ME → UICC  44 ME → UICC  45 ME → UICC  46 ME → UICC  47 ME → UICC  48 ME → UICC  48 ME → UICC  49 ME → UICC  40 ME → UICC  40 ME → UICC  41 ME → UICC  41 ME → UICC  42 ME → UICC  42 ME → UICC  43 ME → UICC  44 ME → UICC  45 ME → UICC  46 ME → UICC  47 ME → UICC  47 ME → UICC  48 ME → UICC  40 ME → UICC  40 ME → UICC  41 ME → UICC  41 ME → UICC  42 ME → UICC  42 ME → UICC  43 ME → UICC  44 ME → UICC  45 ME → UICC  46 ME → UICC  47 ME → UICC  48 ME → UICC  48 ME → UICC  49 ME → UICC  40 ME → UICC  40 ME → UICC  40 ME → UICC  41 ME → UICC  41 ME → UICC  41 ME → UICC  42 ME → UICC  42 ME → UICC  43 ME → UICC  44 ME → UICC  45 ME → UICC  46 ME → UICC  47 ME → UICC  47 ME → UICC  48 ME → UICC  40 ME	20	IVIE → USS	T Di context activation request	
5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 FETCH PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 PDP context deactivation request PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1 FETCH PROACTIVE COMMAND: OPEN CHANNEL 5.4.1 Confirmation phase with alpha ID The user confirms PDP context activation request  WE → UICC  SALIA OF TERMINAL RESPONSE: OPEN CHANNEL 5.4.1  OF TERMINAL RESPONSE: OPEN CHANNEL 5.4.1A OF TERMINAL RESPONSE: OPEN CHANNEL 5.4.1A OF TERMINAL RESPONSE: OPEN CHANNEL 5.4.1B  The UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  [Command performed successfully]  The UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  The UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  THE UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]			·	
or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 FETCH PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 PDP context deactivation request PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 POP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.1.1  WE → UICC → ME  WE → UICC  ME → UICC → ME  WE → USS  ME → UICC  ME → USS  M	22	$ME \rightarrow UICC$		[Command performed successfully]
33 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  24 ME → UICC → ME PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  26 ME → USS PPO context deactivation request PDP context deactivation accept TERMINAL RESPONSE: CLOSE CHANNEL 5.1.1  29 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1  30 ME → UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.1  31 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.4.1  32 ME → USS DETECT PROACTIVE COMMAND: OPEN CHANNEL 5.4.1  33 USS → ME USS DETECT PROACTIVE COMMAND: OPEN CHANNEL 5.4.1  34 ME → USS DETECT PROACTIVE COMMAND: OPEN CHANNEL 5.4.1  35 USS → ME OPEN CHANNEL 5.4.1  36 ME → UICC TERMINAL RESPONSE: OPEN CHANNEL 5.4.14  37 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.4.18  38 USS → ME OPEN CHANNEL 5.4.19  39 UICC → ME OPEN CHANNEL 5.4.19  30 OPEN CHANNEL 5.4.19  31 UICC → ME OPEN CHANNEL 5.4.19  32 OPEN CHANNEL 5.4.19  33 USS → ME OPEN CHANNEL 5.4.19  34 OPEN CHANNEL 5.4.19  35 USS → ME OPEN CHANNEL 5.4.19  36 OPEN CHANNEL 5.4.19  37 UICC → ME OPEN CHANNEL 5.4.19  38 OPEN CHANNEL 5.4.19  39 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  41 OPEN CHANNEL 5.4.19  42 OPEN CHANNEL 5.4.19  43 OPEN CHANNEL 5.4.19  44 OPEN CHANNEL 5.4.19  45 OPEN CHANNEL 5.4.19  46 OPEN CHANNEL 5.4.19  47 OPEN CHANNEL 5.4.19  48 OPEN CHANNEL 5.4.19  48 OPEN CHANNEL 5.4.19  49 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  41 OPEN CHANNEL 5.4.19  41 OPEN CHANNEL 5.4.19  42 OPEN CHANNEL 5.4.19  43 OPEN CHANNEL 5.4.19  44 OPEN CHANNEL 5.4.19  45 OPEN CHANNEL 5.4.19  46 OPEN CHANNEL 5.4.19  46 OPEN CHANNEL 5.4.19  47 OPEN CHANNEL 5.4.19  48 OPEN CHANNEL 5.4.19  48 OPEN CHANNEL 5.4.19  48 OPEN CHANNEL 5.4.19  48 OPEN CHANNEL 5.4.19  48 OPEN CHANNEL 5.4.19  49 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40 OPEN CHANNEL 5.4.19  40			or	
UICC → ME → UICC  ME → UICC → ME UICC → ME UICC → ME UICC → ME → UICC → ME				
24  ME → UICC   25  UICC → ME   26  ME → USS   27  USS → ME   28  ME → UICC   29  UICC → ME   30  ME → UICC   31  UICC → ME   32  ME → USER   33  USER → ME   34  ME → USS   35  USS → ME   36  ME → UICC   37  UICC → ME   38  ME → USER   39  ME → USER   30  ME → USER   30  ME → USER   31  USER → ME   32  ME → USER   33  USER → ME   34  ME → USER   35  USS → ME   36  ME → UICC   37  UICC → ME   38  ME → USER   39  ME → USER   30  ME → USER   30  ME → USER   31  USER → ME   32  ME → USER   33  USER → ME   34  ME → USE   35  USS → ME   36  ME → UICC   37  UICC → ME   38  ME → UICC   39  ME → USER   30  ME → USER   30  ME → USER   31  ME → USER   31  ME → USER   32  ME → USER   33  ME → USER   34  ME → USER   35  ME → USER   36  ME → USER   37  ME → USER   38  ME → USER   39  ME → USER   39  ME → USER   30  ME → USER   30  ME → USER   31  ME → USER   32  ME → USER   33  ME → USER   34  ME → USER   35  ME → USER   36  ME → USER   37  ME → USER   38  ME → USER   39  ME → USER   40  ME → USER   41  ME → USER   42  ME → USER   43  ME → USER   44  ME → USER   45  ME → USER   46  ME → USER   47  ME → USER   48  ME → USER   48  ME → USER   48  ME → USER   49  ME → USER   49  ME → USER   49  ME → USER   40	23	$UICC \to ME$		
25 UICC → ME 26 ME → USS 27 USS → ME 28 ME → UICC 29 UICC → ME 30 ME → UICC 31 UICC → ME 32 ME → USS 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → USS 39 ME → USS 30 ME → USS 30 ME → USS 31 USER → ME 32 ME → USS 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → USS 39 ME → USS 30 ME → USS 30 ME → USS 31 USER → ME 32 ME → USS 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 PDP context activation request 39 PDP context activation accept 39 TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A OR TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B 37 UICC → ME 38 PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	0.4			
5.1.1  26  27  28  28  27  29  29  20  20  20  20  20  20  20  20				
27 USS → ME ME → UICC 28 ME → UICC 29 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → USS 39 ME → USS 30 ME → USER 30 ME → USER 31 USER → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 USS → ME 39 ME → USS 30 ME → USS 31 USS → ME 32 ME → USS 33 USS → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 (Command performed successfully) 39 (Included the provided successfully) 30 ME → UICC 30 (Included the provided successfully) 31 (Included the provided successfully) 32 (Included the provided successfully) 33 (Included the provided successfully) 34 (Included the provided successfully) 35 (Included the provided successfully) 36 (Included the provided successfully) 37 (Included the provided successfully) 38 (Included the provided successfully) 39 (Included the provided successfully) 30 (Included the provided successfully) 30 (Included the provided successfully) 30 (Included the provided successfully) 30 (Included the provided successfully) 30 (Included the provided successfully) 31 (Included the provided successfully) 32 (Included the provided successfully) 33 (Included the provided successfully) 34 (Included the provided successfully) 35 (Included the provided successfully) 36 (Included the provided successfully) 37 (Included the provided successfully) 38 (Included the provided successfully) 39 (Included the provided successfully) 30 (Included the provided successfully) 30 (Included the provided successfully) 30 (Included the provided successfully) 30 (Included the provided successfully) 30 (Included the provided successfully) 30 (Included the provided successfully) 30 (Included the provided successfully) 31 (Included the provided successfully) 32 (Included the provided successfully) 33 (Included the provided successfully) 34 (Included the provided successfully) 35 (Included the provided successfully) 36 (Included the provided successfully) 39 (Included the provided	20	0100 → IVIL		
28  ME → UICC 5.1.1  TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.4.1  FETCH PROACTIVE COMMAND : OPEN CHANNEL 5.4.1  Confirmation phase with alpha ID The user confirms PDP context activation request  PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A  or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.4.11				
UICC → ME  30     ME → UICC 31     UICC → ME  32     ME → USER 33     USER → ME 34     ME → USS 35     USS → ME 36     ME → UICC 37     UICC → ME 38     USS → ME 39     USS → ME 30     ME → USS 30     ME → USER 31     USER → ME 32     ME → USS 33     USS → ME 34     ME → USS 35     USS → ME 36     ME → UICC 37     UICC → ME 38     USS → ME 39     ME → UICC 39     USS → ME 300     USS → ME 310     USS → ME 320     USS → ME 330     USS → ME 34     UICC → ME 35     USS → ME 36     ME → UICC 37     UICC → ME 38     USS → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 39     UICC → ME 30     UICC → ME 30     UICC → ME 30     UICC → ME 31     UICC → ME 31     UICC → ME 32     UICC → ME 33     UICC → ME 34     UICC → ME 35     UICC → ME 36     UICC → ME 37     UICC → ME 37     UICC → ME 38     UICC → ME 39     UICC → ME 39     UICC → ME 30     UICC → ME 30     UICC → ME 31     UICC → ME 31     UICC → ME 32     UICC → ME 33     UICC → ME 34     UICC → ME 35     UICC → ME 36     UICC → ME 37     UICC → ME 37     UICC → ME 38     UICC → ME 39     UICC → ME 30     UICC → ME 30     UICC → ME 30     UICC → ME 31     UICC → ME 31     UICC → ME 31     UICC → ME 32     UICC → ME 33     UICC → ME 34     UICC → ME 35     UICC → ME 36     UICC → ME 37     UICC → ME 37     UICC → ME 38     UICC → ME 39     UICC → ME 30     UICC → ME 30     UICC → ME 30     UICC → ME 31     UICC → ME 31     UICC → ME 31     UICC → ME 32     UICC → ME 33     UICC → ME 34     UICC → ME 35     UICC → ME 36     UICC → ME 37     UICC → ME 37     UICC → ME 38     UICC → ME 39     UICC → ME 30     UICC → ME 30     UICC → ME 30     UICC → ME 31     UICC → ME 31     UICC → ME 31     UICC → ME 31     UICC → ME 32     UICC → ME 33     UICC → ME 34     UICC → ME 35     UICC → ME 36     UICC → ME 37     UICC → ME 37     UICC → ME 38     UICC → ME 39     UICC → ME 30				[Command performed successfully]
30 ME → UICC 31 ME → USER UICC → ME  32 ME → USER USER → ME 33 USER → ME 34 ME → USS  35 USS → ME 36 ME → UICC  37 UICC → ME  38 UICC → ME  39 UICC → ME  30 ME → USER		WIE 7 0100	5.1.1	[[command portormed odococondmy]
30 ME → UICC 31 VICC → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 VICC → ME 38 VICC → ME 39 VICC → ME 30 VICC → ME 30 VICC → ME 31 VICC → ME 32 ME → USS 33 VICC → ME 34 VICC → ME 35 VICC → ME 36 VICC → ME 37 VICC → ME 37 VICC → ME	29	$UICC \to ME$		
31 UICC → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 USS → ME 39 UICC → ME 30 USS → ME 30 USS → ME 31 UICC → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 USS → ME 36 ME → UICC 36 DEN CHANNEL 5.4.1A 37 UICC → ME 38 PROACTIVE COMMAND : OPEN CHANNEL 5.4.1 [alpha identifier is displayed with large font size] [The UE may request IPv4 or IPv4v6 address as PDP type.] [Command performed successfully]  36 UICC → ME 37 UICC → ME 38 PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.4.1B  38 PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	30	$ME \to UICC$		
32 ME → USER USER → ME USER → ME The user confirms 34 ME → USS 35 USS → ME ME → UICC 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 DPD context activation request 39 PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				
33 USER → ME	32	ME → USER		[alpha identifier is displayed with large font size]
35 USS → ME ME → UICC PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				[alpha lashino lo displayed with large fort 6/25]
35 USS → ME ME → UICC PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				
36 ME → UICC TERMINAL RESPONSE : OPEN CHANNEL 5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B  37 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	35	USS → ME	PDP context activation accept	PDP type.]
5.4.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1			The state of the s	[Command performed successfully]
TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				
37 UICC → ME 5.4.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				
CHANNEL 5.1.1			5.4.1B	
	37	UICC → ME		
	38	$ME \to UICC$		

39	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
		5.1.1	
40	$ME \to USS$	PDP context deactivation request	
41	$USS \to ME$	PDP context deactivation accept	
42	$ME \to UICC$	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.4.3	
44	$ME \to UICC$	FETCH	
45	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL	
		5.4.3	
46	$ME \rightarrow USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with normal font size]
47	$USER \to ME$	The user confirms	
48	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
49	$USS \to ME$	PDP context activation accept	
50	$ME \to UICC$	TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
		5.4.1A	
		or	
		TERMINAL RESPONSE : OPEN CHANNEL 5.4.1B	
51	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE	
	- · · · · · · · · · · · · · · · · · · ·	CHANNEL 5.1.1	
52	$ME \rightarrow UICC$	FETCH	
53	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
		5.1.1	
54	$ME \to USS$	PDP context deactivation request	
55	$USS \to ME$	PDP context deactivation accept	
56	$ME \rightarrow UICC$	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	i
	09	4F	70	65	6E	20	49	44	20	32	35	07	ı
	02	03	04	03	04	1F	02	39	02	05	78	47	ı
	0A	06	54	65	73	74	47	70	02	72	73	0D	ı
	08	F4	55	73	65	72	4C	6F	67	0D	08	F4	ı
	55	73	65	72	50	77	64	3C	03	01	AD	9C	ı
	3E	05	21	01	01	01	01	D0	04	00	09	00	ı
	B4											_	ì

## 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:

В	ER-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:

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	Comments
	OIOO / IVIL	CHANNEL 5.5.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 5.5.1	
4	$ME \rightarrow USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with small font size]
5	USER → ME	The user confirms	[cipila identifier to displayed with email ferti elect
6	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as
7		DDD soutset setimation seemt	PDP type.]
7 8	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
0	ME → OICC	5.5.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE : OPEN CHANNEL	
9	$UICC \to ME$	5.5.1B   PROACTIVE COMMAND PENDING: CLOSE	
	OIOO IVIL	CHANNEL 5.1.1	
10	$ME \to UICC$	FETCH	
11	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
12	$ME \to USS$	5.1.1 PDP context deactivation request	
13	USS → ME	PDP context deactivation accept	
14	$ME \rightarrow UICC$	TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
4.5		5.1.1	
15	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.5.2	
16	$ME \to UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL	
40		5.5.2	
18 19	ME → USER	Confirmation phase with alpha ID The user confirms	[alpha identifier is displayed with normal font size]
20	$\begin{array}{c} USER \to ME \\ ME \to USS \end{array}$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as
	WIE 7 000	The some activation request	PDP type.]
21	$USS \to ME$	PDP context activation accept	
22	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL 5.5.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE : OPEN CHANNEL	
00		5.5.1B	
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24	$ME \to UICC$	FETCH	
25	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
26	ME LUCC	5.1.1	
26 27	$ME \to USS$ $USS \to ME$	PDP context deactivation request PDP context deactivation accept	
28	$ME \rightarrow UICC$	TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
		5.1.1	
29	$UICC \to ME$	PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.5.1	
30	$ME \rightarrow UICC$	FETCH	
31	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL	
		5.5.1	
32 33	ME → USER	Confirmation phase with alpha ID The user confirms	[alpha identifier is displayed with small font size]
33	$\begin{array}{c} USER \to ME \\ ME \to USS \end{array}$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as
	W.L / 000		PDP type.]
35	$USS \to ME$	PDP context activation accept	
36	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
		5.5.1A or	
		TERMINAL RESPONSE : OPEN CHANNEL	
		5.5.1B	
37	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
38	$ME \rightarrow UICC$	FETCH	
1 1	, 5,50	ı	ı

39	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
40	ME LIGO	5.1.1	
40	ME → USS	PDP context deactivation request	
41	$USS \to ME$	PDP context deactivation accept	
42	$ME \rightarrow UICC$	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.5.3	
44	$ME \to UICC$	FETCH	
45	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL	
		5.5.3	
46	$ME \to USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with normal font size]
47	$USER \to ME$	The user confirms	
48	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
49	$USS \to ME$	PDP context activation accept	
50	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
		5.5.1A	
		or	
		TERMINAL RESPONSE : OPEN CHANNEL 5.5.1B	
51	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE	
	0.00 /	CHANNEL 5.1.1	
52	$ME \to UICC$	FETCH	
53	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
		5.1.1	
54	$ME \to USS$	PDP context deactivation request	
55	$USS \to ME$	PDP context deactivation accept	
46	$ME \rightarrow UICC$	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		PROACTIVE COMMAND PENDING : OPEN	Comments
		CHANNEL 5.6.1	
2	ME → UICC		
3	UICC → ME	PROACTIVE COMMAND : OPEN CHANNEL 5.6.1	
4		Confirmation phase with alpha ID	[alpha identifier is displayed with bold on]
5	$USER \to ME$	The user confirms	
6		PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
7		PDP context activation accept	
8	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A	[Command performed successfully]
		or TERMINAL RESPONSE : OPEN CHANNEL 5.6.1B	
9	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	$ME \rightarrow UICC$		
11		PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12		PDP context deactivation request	
13		PDP context deactivation accept	[Company of a surface of company (the d
14	$ME \rightarrow UICC$	5.1.1	[Command performed successfully]
15		PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.6.2	
16	ME → UICC		
17		PROACTIVE COMMAND : OPEN CHANNEL 5.6.2	
18		Confirmation phase with alpha ID	[alpha identifier is displayed with bold off]
19 20		The user confirms	The LIE may request IDv4 or IDv4v6 address as
20	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
21 22	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A	[Command performed successfully]
		or TERMINAL RESPONSE : OPEN CHANNEL	
23	$UICC \to ME$	5.6.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
24 25	ME → UICC	FETCH PROACTIVE COMMAND: CLOSE CHANNEL	
25		5.1.1	
26		PDP context deactivation request	
27 28		PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
29	$UICC \to ME$	5.1.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.6.1	
30	$ME \rightarrow UICC$	FETCH	
31	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 5.6.1	
32		Confirmation phase with alpha ID	[alpha identifier is displayed with bold on]
33		The user confirms	The LIE may request IDv4 or IDv4v6 address as
34		PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
35		PDP context activation accept	
36	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A	[Command performed successfully]
		or   TERMINAL RESPONSE : OPEN CHANNEL	
		5.6.1B	
37	$UICC \to ME$	CHANNEL 5.1.1	
38	$ME \rightarrow UICC$	FETCH	

39	$\bigcup CC \rightarrow MF$	PROACTIVE COMMAND: CLOSE CHANNEL	
	0.00 /	5.1.1	
40	$ME \rightarrow USS$	PDP context deactivation request	
41	$USS \to ME$	PDP context deactivation accept	
42	$ME \rightarrow UICC$	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.6.3	
44	$ME \rightarrow UICC$	FETCH	
45	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 5.6.3	
46	$ME \rightarrow USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with bold off]
47	$USER \to ME$	The user confirms	
48	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
49		PDP context activation accept	
50	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL 5.6.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE : OPEN CHANNEL 5.6.1B	
51	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
52	$ME \rightarrow UICC$	FETCH	
53	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
54	$ME \rightarrow USS$	PDP context deactivation request	
55	$USS \to ME$	PDP context deactivation accept	
56	$ME \rightarrow UICC$	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:

В	ER-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)

1 UICC → ME → UICC  ME → UICC → ME → UICC	Г	Step	Direction	MESSAGE / Action	Comments
CHANNEL 5.7.1   CHANNEL 5.7					Commonic
3					
5.7.1   Second management   Second manageme					
4		3	$UICC \to ME$		
The User American Populary and		4	MF → USER	I -	[alpha identifier is displayed with italic on]
The UE may request IPv4 or IPv4v6 address as PDP type.]					[a.p. a. a.a. a.a. a.a. a.a. a.a.
The context activation accept   The context activation acce				PDP context activation request	
B		_			PDP type.]
S.7.14 or TERMINAL RESPONSE : OPEN CHANNEL 5.7.18 9 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 12 ME → UISC 13 USS → ME 14 ME → UISC 15 UICC → ME PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 15 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.2 16 ME → UICC 17 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.2 18 ME → USSR UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.2 19 USSP → ME 19 USSP → ME 10 USSP → ME 10 USSP → ME 11 USS → ME 12 ME → UICC 15 ME → UICC 16 ME → UICC 17 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.1 18 ME → UISC 19 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.7.1 10 Or TERMINAL RESPONSE : OPEN CHANNEL 5.7.18 10 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 10 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 10 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 10 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 11 CHANNEL 5.7.1 12 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.1 13 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.1 14 PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.1 15 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.1 16 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.1 17 CHANNEL 5.7.1 18 ME → UICC 18 ME → UICC 19 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.1 19 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: OPEN CHANNEL 5.7.1 10 COMMAND PENDING: CLOSE CHANNEL 5.7.1 10 COMMAND PENDING					[Command performed successfully]
or TERMINAL RESPONSE : OPEN CHANNEL 5.7.18  9 UICC → ME POACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  10 ME → UICC → ME PENDACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  11 UICC → ME PENDACTIVE COMMAND: CLOSE CHANNEL 5.1.1  12 ME → UISS PDP context deactivation request PDP context deactivation accept CHANNEL 5.1.2  13 USS → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.2  14 ME → UICC ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.2  15 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.2  16 ME → UICC PROACTIVE COMMAND: OPEN CHANNEL 5.7.2  17 USS → ME POP context activation request PDP context activation request PDP type.]  18 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.18  19 USS → ME PDP context activation accept CHANNEL 5.7.18  20 UICC → ME PROACTIVE COMMAND: CLOSE CHANNEL 5.7.18  21 UICC → ME PROACTIVE COMMAND: CLOSE CHANNEL 5.7.18  22 ME → UICC CHANNEL 5.1.1  23 UICC → ME PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  24 ME → UICC CHANNEL 5.1.1  25 UICC → ME PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  26 ME → UICC CHANNEL 5.1.1  27 USS → ME PDP context deactivation request PDP context deactivation request PDP context deactivation accept CHANNEL 5.7.18  28 ME → UICC COMMAND: OPEN CHANNEL 5.7.18  29 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  20 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  21 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  22 ME → UICC COMMEND: OPEN CHANNEL 5.7.1  23 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  24 ME → UICC FIETCH  25 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  26 ME → UICC FIETCH  27 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  28 ME → UICC FIETCH  29 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  20 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  21 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  22 ME → UICC FIETCH  23 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  24 ME → UICC FIETCH  25 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  26 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  27 UICC → ME PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  28 ME →		0	IVIE → UICC		[Confinant penorified successfully]
9 UICC → ME 10 ME → UICC 11 UICC → ME 11 UICC → ME 12 ME → UISS 13 USS → ME 14 ME → UICC 15 UICC → ME 16 ME → UICC 16 ME → UICC 17 UICC → ME 18 ME → UICC 18 ME → UICC 19 UICC → ME 19 UICC → ME 10 ME → UICC 10 UICC → ME 10 ME → UICC 11 UICC → ME 12 ME → UICC 13 ME → UICC 14 ME → UICC 15 UICC → ME 16 ME → UICC 17 UICC → ME 18 ME → UICC 18 ME → UICC 19 UICC → ME 19 USER → ME 20 ME → USS 21 USS → ME 22 ME → UICC 25 UICC → ME 24 ME → UICC 25 UICC → ME 26 ME → UICC 26 UICC → ME 27 UICC → ME 28 ME → UICC 29 UICC → ME 20 ME → UICC 20 UICC → ME 21 ME → UICC 25 UICC → ME 26 ME → UICC 26 UICC → ME 27 UICC → ME 28 ME → UICC 29 UICC → ME 20 ME → UICC 20 UICC → ME 21 UICC → ME 22 ME → UICC 25 UICC → ME 26 ME → UICC 26 UICC → ME 27 UICC → ME 28 ME → UICC 29 UICC → ME 20 ME → UICC 20 UICC → ME 21 UICC → ME 22 ME → UICC 23 UICC → ME 24 ME → UICC 25 UICC → ME 26 ME → UICC 26 UICC → ME 27 UICC → ME 28 ME → UICC 29 UICC → ME 20 ME → UICC 20 UICC → ME 21 UICC → ME 22 ME → UICC 23 UICC → ME 24 ME → UICC 25 UICC → ME 26 ME → UICC 26 UICC → ME 27 UICC → ME 28 ME → UICC 29 UICC → ME 20 UICC → ME 21 UICC → ME 22 ME → UICC 25 UICC → ME 26 ME → UICC 26 UICC → ME 27 UICC → ME 28 ME → UICC 29 UICC → ME 20 UICC → ME 21 UICC → ME 22 ME → UICC 25 UICC → ME 26 ME → UICC 26 UICC → ME 27 UICC → ME 28 ME → UICC 29 UICC → ME 29 UICC → ME 20 UICC → ME 21 UICC → ME 22 ME → UICC 23 UICC → ME 24 ME → UICC 25 UICC → ME 26 ME → UICC 26 UICC → ME 27 UICC → ME 28 ME → UICC 29 UICC → ME 29 UICC → ME 20 UICC → ME 20 UICC → ME 21 UICC → ME 21 UICC → ME 22 ME → UICC 23 UICC → ME 24 ME → UICC 25 UICC → ME 26 UICC → ME 27 UICC → ME 28 UICC → ME 29 UICC → ME 20 UICC → ME 20 UICC → ME 21 UICC → ME 21 UICC → ME 22 (ICC → ME 23 UICC → ME 24 ME → UICC 25 UICC → ME 26 UICC → ME 27 UICC → ME 28 UICC → ME 29 UICC → ME 29 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC → ME 20 UICC					
9					
ME → UICC → ME   PROACTIVE COMMAND: CLOSE CHANNEL   5.1.1		a	LUCC ME	I -	
10 ME → UICC → ME STATE OF THE ME STATE OF TH		3	OICC → IVIE		
12		10	$ME \to UICC$	FETCH	
12		11	$UICC \to ME$		
13 USS → ME  ME → UICC  ME → UICC  ME → UICC → ME  ME → UICC  ME → UICC → ME  19 USS → ME  ME → UICC  ME → UICC → ME  ME → UICC  ME → UICC → ME  ME → UICC  ME  ME → UICC  ME → U		12	ME LISS		
TERMINAL RESPONSE : CLÖSE CHANNEL   Command performed successfully				<u> </u>	
15 UICC → ME 16 ME → UICC 17 UICC → ME 18 ME → USER 19 USER → ME 20 USER → ME 21 USE → ME 22 ME → UICC 31 UICC → ME 23 UICC → ME 24 ME → UICC 35 UICC → ME 25 UICC → ME 26 ME → UICC 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 ME → UICC 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 ME → UICC 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 ME → UICC 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 ME → UICC 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 ME → UICC 39 UICC → ME 30 UICC → ME 30 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 UICC → ME 30 UICC → ME 31 UICC → ME 32 UICC → ME 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 UICC → ME 30 UICC → ME 30 UICC → ME 31 UICC → ME 32 UICC → ME 33 UICC → ME 34 ME → UICC 35 UICC → ME 35 UICC → ME 36 ME → UICC 37 UICC → ME 37 UICC → ME 38 UICC → ME 39 UICC → ME 30 UICC → ME 30 UICC → ME 30 UICC → ME 31 UICC → ME 32 UICC → ME 33 UICC → ME 34 ME → UICC 35 UICC → ME 35 UICC → ME 36 UICC → ME 37 UICC → ME 37 UICC → ME 38 UICC → ME 39 UICC → ME 30 UI					[Command performed successfully]
HE → UICC → ME UICC → ME UICC → ME UICC → ME UICC → ME UICC → ME → UICC → ME UICC → ME UICC → ME UICC → ME UICC → ME UICC → ME ∪ UICC → ME UICC → ME UICC → ME UICC → ME UICC → ME ∪ UICC → ME ∪ UICC → ME UICC → ME ∪ UICC → ME UICC → ME ∪ UICC → UICC → ME ∪ UICC →					
16		15	$UICC \to ME$		
17 UICC → ME   18		16	$ME \rightarrow UICC$		
18					
19 USER → ME ME → USS 21 USS → ME ME → UICC 22 ME → UICC → ME 23 UICC → ME 24 ME → UICC 25 UICC → ME 26 ME → UICC 27 UICC → ME 28 ME → UICC 31 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 31 UICC → ME 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 31 UICC → ME 33 USS → ME 34 ME → UICC 35 ME → USS 36 USS → ME 37 USS → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 40 ME → UICC 41 UICC → ME 41 ME → UICC 42 ME → UICC 43 UICC → ME 44 ME → UICC 45 ME → UICC 46 ME → UICC 47 ME → UICC 48 ME → UICC 49 UICC → ME 40 ME → UICC 41 UICC → ME 41 ME → UICC 42 ME → UICC 43 UICC → ME 44 ME → UICC 45 ME → UICC 46 ME → UICC 47 ME → UICC 48 ME → UICC 49 UICC → ME 40 ME → UICC 40 ME → UICC 41 UICC → ME 41 ME → UICC 42 ME → UICC 43 UICC → ME 42 ME → UICC 43 UICC → ME 44 ME → UICC 45 ME → UICC 46 ME → UICC 47 ME → UICC 48 ME → UICC 49 ME → UICC 40 ME → UICC 41 ME → UICC 41 ME → UICC 42 ME → UICC 43 ME → UICC 44 ME → UICC 45 ME → UICC 46 ME → UICC 47 ME → UICC 48 ME → UICC 48 ME → UICC 49 ME → UICC 40 ME → UICC 41 ME → UICC 41 ME → UICC 42 ME → UICC 43 ME → UICC 44 ME → UICC 45 ME → UICC 46 ME → UICC 47 ME → UICC 48 ME → UICC 48 ME → UICC 49 ME → UICC 40 ME → UICC 40 ME → UICC 41 ME → UICC 41 ME → UICC 42 ME → UICC 43 ME → UICC 44 ME → UICC 45 ME → UICC 46 ME → UICC 47 ME → UICC 48 ME → UICC 48 ME → UICC 49 ME → UICC 40 ME → UICC 40 ME → UICC 41 ME → UICC 41 ME → UICC 41 ME → UICC 42 ME → UICC 42 ME → UICC 43 ME → UICC 44 ME → UICC 44 ME → UICC 45 ME → UICC 46 ME → UICC 47 ME → UICC 48 ME → UICC 48 ME → UICC 49 ME → UICC 40 ME → UICC 41 ME → UICC 41 ME → UICC 41 ME → UICC 41 ME → UICC 41 ME → UICC 42 ME → UICC 42 ME → UICC 43 ME → UICC 44 ME → UICC 44 ME → UICC 45 ME → UICC 46 ME → UICC 47 ME → UICC 48 ME → UICC 48 ME → UICC 49 ME → UICC 40 ME → UICC 40 ME → UICC 41 ME → UICC 41 ME → UICC 41 ME → UIC		40			
20 ME → USS 21 USS → ME 22 ME → UICC 23 UICC → ME 24 ME → UICC 25 UICC → ME 26 ME → UICC 27 UICC → ME 28 ME → UICC 29 UICC → ME 29 UICC → ME 29 UICC → ME 20 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 31 UICC → ME 33 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 USS → ME 39 ME → UICC 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 USS → ME 36 ME → UICC 36 ME → UICC 37 UICC → ME 38 USS → ME 39 ME → UICC 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 USS → ME 36 ME → UICC 36 ME → UICC 37 UICC → ME 38 USS → ME 39 ME → UICC 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 37 UICC → ME 38 ME → UICC 48 ME → UICC 49 ME → UICC 57 (Command performed successfully) 57 (IP UICC → ME) 57 (IP UICC →					[alpha identifier is displayed with italic off]
21 USS → ME 22 ME → UICC  23 UICC → ME 24 ME → UICC  25 UICC → ME 26 ME → UICC  27 UICC → ME 28 ME → UICC  29 UICC → ME 29 UICC → ME 29 UICC → ME 30 ME → UICC 31 UICC → ME 31 USS → ME 32 ME → UICC 31 UICC → ME 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → USS 36 ME → UICC 37 USS → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 USER → ME 32 ME → UICC 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 USER → ME 32 ME → UICC 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 USER → ME 39 USER → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 32 ME → UICC 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 ME → UICC 39 USER → ME 39 ME → UICC 30 ME → UICC 31 UICC → ME 32 ME → UICC 33 USER → ME 34 ME → UICS 35 ME 36 ME → UICC 36 ME 37 UICC → ME 37 UICC → ME 38 ME → UICC 39 Confirmation phase with alpha ID 39 The user confirms 30 ME → UICC 30 TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A 5.7.1A 6 Or 7 TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A 6 OR 7 TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B 7 UICC → ME 7 UICC → ME 7 UICC → ME 8 ME → UICC 8 ME 9 UICC 9 ME 9 CONMAND PENDING: CLOSE 1 (Command performed successfully) 1 (The UE may request IPv4 or IPv4v6 address as PDP type.) 1 (Command performed successfully) 1 (Command					The UF may request IPv4 or IPv4v6 address as
TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 PDP context deactivation request PDP context deactivation request PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.1.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1  ME → UICC ME → UICC → ME UICC → ME UICC → ME UICC → ME  TERMINAL RESPONSE : OPEN CHANNEL 5.7.1  ME → USS  TERMINAL RESPONSE : OPEN CHANNEL 5.7.1  THE UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  [The UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1			WIE 7 000		
5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 FETCH PPO context deactivation request PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1 FETCH PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1 FETCH PROACTIVE COMMAND : OPEN CHANNEL 5.7.1 Confirmation phase with alpha ID The user confirms PDP context activation request  ME → USS  TERMINAL RESPONSE : OPEN CHANNEL 5.7.1  The UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  The UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  THE UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  THE UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  THE UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  THE UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  THE UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]				·	
or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B  PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  POP context deactivation request PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1  POP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.1.1  PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1  FETCH PROACTIVE COMMAND : OPEN CHANNEL 5.7.1  SOME → UICC → ME UICC → ME UICC → ME → UICC		22	$ME \rightarrow UICC$		[Command performed successfully]
37 UICC → ME  5.7.1B  PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  FETCH PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1  PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.1  PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  STANDARD PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  STANDARD PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  STANDARD PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  STANDARD PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  STANDARD PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  STANDARD PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  STANDARD PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  STANDARD PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  STANDARD PROACTIVE COMMAND: OPEN CHANNEL 5.7.1  STANDARD PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.7.1  COMMAND PENDING: CLOSE CHANNEL 5.7.1  COMMAND PENDING: CLOSE CHANNEL 5.7.1  COMMAND PENDING: CLOSE CHANNEL 5.7.1  COMMAND PENDING: CLOSE CHANNEL 5.7.1  COMMAND PENDING: CLOSE CHANNEL 5.7.1  COMMAND PENDING: CLOSE CHANNEL 5.7.1  COMMAND PENDING: CLOSE CHANNEL 5.7.1  COMMAND PENDING: CLOSE CHANNEL 5.7.1  COMMAND PENDING: CLOSE CHANNEL 5.7.1  COMMAND PENDING: CLOSE CHANNEL 5.7.1					
UICC → ME → UICC  25 UICC → ME → UICC  25 UICC → ME → USS  26 ME → USS  27 USS → ME  28 ME → UICC  29 UICC → ME  29 UICC → ME  30 ME → UICC  31 UICC → ME  32 ME → USS  33 USS → ME  34 ME → USS  35 USS → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  39 UICC → ME  30 ME → UICC  30 ME → UICC  31 UICC → ME  32 ME → USS  33 USS → ME  34 ME → USS  35 USS → ME  ME → UICC  36 ME → UICC  37 UICC → ME  38 ME → USS  39 USS → ME  30 ME → USS  30 ME → USS  31 USS → ME  32 ME → USS  33 USS → ME  34 ME → USS  35 USS → ME  36 ME → UICC  37 UICC → ME  38 ME → UICC  40 ME → UICC  57.1 Confirmation phase with alpha ID  The user confirms  PDP context activation request  PDP context activation request  PDP context activation accept  TERMINAL RESPONSE : OPEN CHANNEL  57.1 B  TERMINAL RESPONSE : O					
24 ME → UICC 25 UICC → ME 26 ME → USS 27 USS → ME 28 ME → UICC 29 UICC → ME 29 UICC → ME 30 ME → UICC 31 UICC → ME 32 ME → USS 33 USS → ME 34 ME → USS 35 USS → ME 36 ME → USS 36 ME → USS 37 UICC → ME 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → USS ME 33 USS → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → USS 39 ME 30 ME → USS 30 ME → USS 31 USS → ME 32 ME → USS 33 USS → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 39 USS → ME 30 ME → UICC 30 ME → UICC 31 (Command performed successfully) 31 (Including the property of the prop		22	LUCO ME	1 -	
24  ME → UICC   25  UICC → ME   26  ME → USS   27  USS → ME   28  ME → UICC   29  UICC → ME   30  ME → UICC   31  UICC → ME   32  ME → USER   33  USER → ME   34  ME → USS   35  USS → ME   ME → UICC   36  ME → UICC   37  UICC → ME   38  ME → USER   39  ME → USER   30  ME → USER   30  ME → USER   31  USER → ME   32  ME → USER   33  USER → ME   34  ME → USS   35  USS → ME   36  ME → UICC   37  UICC → ME   38  ME → UICC   39  ME → USER   39  ME → USER   30  ME → USER   31  USER → ME   32  ME → USER   33  USER → ME   34  ME → USER   35  USS → ME   36  ME → UICC   37  UICC → ME   38  ME → UICC   39  ME → USER   39  ME → UICC   30  ME → USER   310  ME → USER   311  ME → USER   320  ME → USER   331  USER → ME   342  ME → USER   353  ME → USER   354  ME → USER   355  ME → UICC   357  ME → UICC   36  ME → UICC   37  ME → UICC   38  ME → UICC   39  ME → USER   39  ME → USER   39  ME → USER   39  ME → USER   39  ME → UICC   30  ME → USER   310  ME → USER   310  ME → USER   310  ME → USER   311  ME → USER   32  ME → USER   33  ME → USER   34  ME → USER   35  ME → USER   36  ME → UICC   37  ME → USER   38  ME → USER   39  ME → USER   30  ME → USER   30  ME → USER   310  ME → USER   311  ME → USER   311  ME → USER   32  ME → USER   33  ME → USER   34  ME → USER   35  ME → USER   36  ME → USER   37  ME → USER   38  ME → USER   39  ME → USER   30  ME → USER   30  ME → USER   310  ME → USER   311  ME → USER   310  ME → USER   311  ME → USER   310  ME → USER   311  ME → USE		23	UICC → ME		
5.1.1 PDP context deactivation request PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1 FETCH PROACTIVE COMMAND : OPEN CHANNEL 5.7.1 Confirmation phase with alpha ID The user confirms PDP context activation request PDP context activation request  NE → USS NE → ME ME → USS  SS → ME ME → UICC  UICC → ME  WE → USER ME → USS  TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A Or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  The UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  [Command performed successfully]		24	$ME \to UICC$		
26		25	$UICC \to ME$		
27 USS → ME ME → UICC 28 ME → UICC 29 UICC → ME 30 ME → UICC 31 UICC → ME 31 UCC → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → USER 30 ME → USER 31 USER → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 39 ME → USER 30 ME → USER 30 ME → USER 31 USER → ME 32 ME → USER 33 USER → ME 34 ME → USER 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 (Command performed successfully) 39 [Command performed successfully] 30 ME → UICC 31 (Command performed successfully) 31 (Command performed successfully) 32 (Command performed successfully) 33 (Command performed successfully) 34 (Command performed successfully) 35 (Command performed successfully) 36 (Command performed successfully) 37 (Command performed successfully)		26	ME LISS		
28 ME → UICC 29 UICC → ME 30 ME → UICC 31 UICC → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 USCR → ME 39 UICC → ME 30 ME → USER 30 ME → USER 31 USER → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 DPD context activation accept 38 TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A 39 Or 39 TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A 30 ME → UICC 31 UICC → ME 32 ME → USS 33 USS → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 DPD context activation accept 38 TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A 39 OF 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 (Command performed successfully) 31 (Command performed successfully) 32 (Command performed successfully) 33 UICC → ME 34 (Command performed successfully) 35 (Command performed successfully) 36 (Command performed successfully) 37 UICC → ME 38 (Command performed successfully) 38 (Command performed successfully) 39 (Command performed successfully) 30 (Command performed successfully) 30 (Command performed successfully) 30 (Command performed successfully) 31 (Command performed successfully) 32 (Command performed successfully) 33 (Command performed successfully) 34 (Command performed successfully) 35 (Command performed successfully) 36 (Command performed successfully) 37 (Command performed successfully) 38 (Command performed successfully) 39 (Command performed successfully) 30 (Command performed successfully) 30 (Command performed successfully) 30 (Command performed successfully) 31 (Command performed successfully) 32 (Command performed successfully) 33 (Command performed successfully) 34 (Command performed successfully) 35 (Command performed successfully) 36 (Command performed successfully) 37 (Command performed successfully) 38 (Command performed successfully) 39 (Command performed successfully) 30 (Command performed successfully) 30 (Command performed successfully) 30 (Command performed successfully) 30 (Command performed successfully) 30 (Command performed successfully) 30 (Command performed successfully)					
29       UICC → ME       PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.7.1         30       ME → UICC → ME       PROACTIVE COMMAND : OPEN CHANNEL 5.7.1         31       UICC → ME       PROACTIVE COMMAND : OPEN CHANNEL 5.7.1         32       ME → USER Offirmation phase with alpha ID The user confirms       Image:				•	[Command performed successfully]
30 ME → UICC 31 ME → USER UICC → ME 32 ME → USER USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC  37 UICC → ME 38 USC → ME 39 USC → ME 39 USS → ME 30 ME → UICC 30 ME → USC 31 USS → ME 32 USS → ME 33 USS → ME 34 ME → UICC 35 DPD context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A OF TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1		00			
30 ME → UICC 31 VICC → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 VICC → ME 38 VICC → ME 39 VICC → ME 30 VICC → ME 30 VICC → ME 31 VICC → ME 32 ME → USS 33 VICC → ME 34 VICC → ME 35 VICC → ME 36 VICC → ME 37 VICC → ME 37 VICC → ME 38 PETCH PROACTIVE COMMAND : OPEN CHANNEL 5.7.1 Confirmation phase with alpha ID The user confirms PDP context activation request PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A Or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1		29	OICC → ME		
31 UICC → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 USS → ME 39 UICC → ME 30 USS → ME 30 USS → ME 31 UICC → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 USS → ME 36 ME → UICC 37 UICC → ME 38 PROACTIVE COMMAND : OPEN CHANNEL 5.7.1  Confirmation phase with alpha ID The user confirms PDP context activation request PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A OR TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1		30	$ME \to UICC$		
32 ME → USER USER → ME USER → ME The user confirms 34 ME → USS PDP context activation request  35 USS → ME ME → UICC  36 ME → UICC  37 UICC → ME  38 ME → USS PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.7.18 PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1		31	$UICC \to ME$		
33 USER → ME		22	ME LICED		[alpha identifier is displayed with italic on]
34 ME → USS PDP context activation request  35 USS → ME ME → UICC PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B  37 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				<b>■</b> • • • • • • • • • • • • • • • • • • •	[alpha identifier is displayed with Italic on]
35 USS → ME ME → UICC PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1					[The UE may request IPv4 or IPv4v6 address as
36 ME → UICC TERMINAL RESPONSE : OPEN CHANNEL 5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				-	
5.7.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				· · · · · · · · · · · · · · · · · · ·	[Command performed successfully]
or TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1		30	IVIE → UICC		[Command performed successfully]
37 UICC → ME 5.7.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				or	
37 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1					
CHANNEL 5.1.1		37	LIICC → ME		
$\mid$ 38 $\mid$ ME $\rightarrow$ UICC $\mid$ FETCH		٥,			
		38	$ME \to UICC$	FETCH	

39	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
40	ME  o USS	PDP context deactivation request	
41	USS → ME	PDP context deactivation request	
		•	[Company of the state of the st
42	$ME \rightarrow UICC$	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.7.3	
44	$ME \to UICC$	FETCH	
45	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL	
		5.7.3	
46	$ME \rightarrow USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with italic off]
47	$USER \rightarrow ME$	The user confirms	
48	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
49	$USS \to ME$	PDP context activation accept	,, ,
50	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
		5.7.1A	
		or	
		TERMINAL RESPONSE : OPEN CHANNEL 5.7.1B	
51	UICC → ME	PROACTIVE COMMAND PENDING: CLOSE	
	OIGG / IVIE	CHANNEL 5.1.1	
52	$ME \rightarrow UICC$	FETCH	
53	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL	
		5.1.1	
54	$ME \to USS$	PDP context deactivation request	
55	$USS \to ME$	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:

Command type: **OPEN CHANNEL** 

Command qualifier: immediate link establishment

Device identities

**UICC** Source device: Destination device: ME

Alpha Identifier "Open ID 3"

Bearer

Bearer type: **GPRS** 

Bearer parameter:

Precedence Class: 03 Delay Class: 04 03 Reliability Class: 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:

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	Comments
		CHANNEL 5.8.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 5.8.1	
4	$ME \rightarrow USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with underline on]
5	$USER \to ME$	The user confirms	
6	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
7	USS → ME	PDP context activation accept	10
8	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL 5.8.1A	[Command performed successfully]
		or TERMINAL RESPONSE : OPEN CHANNEL 5.8.1B	
9	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
10	$ME \to UICC$	FETCH	
11	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
12	$ME \rightarrow USS$	PDP context deactivation request PDP context deactivation accept	
13 14	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
	WIE 70100	5.1.1	[command ponomica caccectany]
15	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.8.2	
16 17	ME → UICC	FETCH PROACTIVE COMMAND : OPEN CHANNEL	
	UICC → ME	5.8.2	[alpha identifier is displayed with underline off]
18 19	$ME \rightarrow USER$ $USER \rightarrow ME$	Confirmation phase with alpha ID The user confirms	[alpha identifier is displayed with underlifie on]
20	ME → USS	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
21	$USS \to ME$	PDP context activation accept	'yp-1
22	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 5.8.1A	[Command performed successfully]
		or TERMINAL RESPONSE: OPEN CHANNEL	
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE	
24	$ME \to UICC$	CHANNEL 5.1.1	
25	UICC → ME	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
26	$ME \to USS$	PDP context deactivation request	
27 28	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
29	$UICC \to ME$	5.1.1 PROACTIVE COMMAND PENDING : OPEN	
30	$ME \rightarrow UICC$	CHANNEL 5.8.1 FETCH	
31	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 5.8.1	
32 33	$\begin{array}{c} ME \to USER \\ USER \to ME \end{array}$	Confirmation phase with alpha ID	[alpha identifier is displayed with underline on]
34	ME → USS	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
35	$USS \to ME$	PDP context activation accept	
36	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL 5.8.1A	[Command performed successfully]
		or TERMINAL RESPONSE : OPEN CHANNEL	
		5.8.1B	
37	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
38	$ME \rightarrow UICC$	FETCH	

39	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
00	OICC → IVIL	5.1.1	
40	$ME \to USS$	PDP context deactivation request	
41	$USS \to ME$	PDP context deactivation accept	
42	$ME \to UICC$	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
43	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.8.3	
44	$ME \to UICC$	FETCH	
45	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 5.8.3	
46	$ME \rightarrow USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with underline off]
47	USER → ME	The user confirms	
48	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
49	$USS \to ME$	PDP context activation accept	
50	$ME \to UICC$	TERMINAL RESPONSE : OPEN CHANNEL 5.8.1A	[Command performed successfully]
		or TERMINAL RESPONSE : OPEN CHANNEL	
		5.8.1B	
51	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	
52	$ME \to UICC$	FETCH	
53	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1	
54	$ME \to USS$	PDP context deactivation request	
55	$USS \to ME$	PDP context deactivation accept	
56	$ME \to UICC$	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:

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)

1 UICC → ME → UIC	Step	Direction	MESSAGE / Action	Comments
ME → UICC → ME   ME → USER   ME → UICC → ME   ME → UIC				Comments
3 UICC → ME				
S.9.1   Section   Secti				
The User American Popular Confirms Popular Context activation request Popular Popular Confirms Popular Context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.9.1 For TERMINAL RESPONSE : OPEN CHANNEL 5.9.1 For Context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.9.1 For Context deactivation accept UICC → ME POPUlar Confirms Popular Context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.9.1 For Context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.9.1 For Context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.9.2 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1 FETCH PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1 FETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1 Command performed successfully]  30 ME → UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.1.1 Comfirmation phase with alpha ID THE PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1 FETCH PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.1 FETCH PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.1 FETCH PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.1 FETCH PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.	3	UICC → IVIE		
The UE may request IPv4 or IPv4v6 address as PDP type.]  The UE may request IPv4 or IPv4v6 address as PDP t		$ME \to USER$		[alpha identifier is displayed with strikethrough on]
PDP context activation accept   TERMINAL RESPONSE : OPEN CHANNEL   Sp. 14   TERMINAL RESPONSE : OPEN CHANNEL   Sp. 18   TERMINAL RESPONSE : OPEN CHANNEL   Sp. 18   Sp. 14				TT 115 115 1 15 1 0 11
The context activation accept   The context activation accept   Terminal RESPONSE : OPEN CHANNEL   S.9.1	6	$ME \rightarrow USS$	PDP context activation request	
S.9.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  ME → UICC → ME S.1.1  ME → UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2  TERMINAL RESPONSE : CLOSE CHANNEL S.9.2  ME → UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2  ME → UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2  ME → UICC → ME S.9.2  ME → UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  ME → UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  ME → UICC ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.1  ME → UICC S.9.1B  ME → UICC ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  ME → UICC ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  ME → UICC ME ME ME → UICC ME ME ME → UICC ME ME ME ME ME ME ME ME ME ME ME ME ME	7	$USS \to ME$		. 2. 1, po.,
or TERMINAL RESPONSE : OPEN CHANNEL 5.9.18  9 UICC → ME POACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  10 ME → UICC → ME PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  11 UICC → ME PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1  12 ME → USS PDP context deactivation request PDP context deactivation accept CHANNEL 5.1.1  13 USS → ME POCACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2  16 ME → UICC HETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2  17 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2  18 ME → USS COnfirmation phase with alpha ID THANNEL 5.9.2  19 USS → ME PDP context activation request PDP type.]  20 ME → USS DPD CONTEXT ACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.1A  21 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.15  22 ME → UICC ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.15  23 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.15  24 ME → UICC TETCH PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.15  25 USS → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  26 ME → UICC TETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  27 USS → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  28 ME → UICC TETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  29 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  20 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  21 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  22 ME → UICC TETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  23 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  24 ME → UICC TETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  25 USS → ME POACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  26 ME → UICC TETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  27 USS → ME POACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  28 ME → UICC TETCH PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  29 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  20 UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1  21 UICC → ME PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.1  22 ME → UICC TETCH PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5	8	$ME \to UICC$		[Command performed successfully]
TERMINAL RESPONSE : OPEN CHANNEL  5.1 B PROACTIVE COMMAND PENDING: CLOSE  CHANNEL 5.1.1  ME → UICC → ME  STANDACTIVE COMMAND: CLOSE CHANNEL  5.1.1  ME → UISS  USS → ME  ME → UICC → ME  PPD context deactivation request  PPD context deactivation accept  TERMINAL RESPONSE : CLOSE CHANNEL  5.1.2  IUCC → ME  PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2  IME → UISS  UICC → ME  PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2  IME → UISS  UICC → ME  PROACTIVE COMMAND OPEN CHANNEL  5.9.2  IUSS → ME  PDP context activation request  PDP context activation accept  TERMINAL RESPONSE : OPEN CHANNEL  5.9.1B  UICC → ME  PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.9.1  IUCC → ME  PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND CLOSE CHANNEL  5.1.1  PROACTIVE COMMAND CLOSE CHANNEL  5.1.1  PROACTIVE COMMAND CLOSE CHANNEL  5.1.1  PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND PENDING: OPEN  CHANNEL 5.9.1  IUCC → ME  PROACTIVE COMMAND PENDING: OPEN  CHANNEL 5.9.1  PROACTIVE COMMAND CLOSE CHANNEL  5.1.1  PROACTIVE COMMAND PENDING: OPEN  CHANNEL 5.9.1  THE WE WAY  IT THE UE may request IPv4 or IPv4v6 address as PDP type.]  IT THE UE may request IPv4 or IPv4v6 address as PDP type.]  IT THE UE may request IPv4 or IPv4v6 address as PDP type.]  IT UE may request IPv4 or IPv4v6 address as PDP type.]  IT THE UE may request IPv4 or IPv4v6 address as PDP type.]  IT THE UE may request IPv4 or IPv4v6 address as PDP type.]  IT THE UE may request IPv4 or IPv4v6 address as PDP type.]  IT THE UE may request IPv4 or IPv4v6 address as PDP type.]  IT THE UE may request IPv4 or IPv4v6 address as PDP type.]  IT THE UE may request IPv4 or IP				
9				
ME → UICC  11		LUCO ME		
10 ME → UICC → ME Sussessibly Sussible New York of Terminal Response : CLOSE CHANNEL 5.1.1  12 ME → UICC → ME Sussessible Sussible New York of Terminal Response : CLOSE CHANNEL 5.1.1  15 UICC → ME → UICC → ME PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.2  16 ME → UICC → ME Sussessible Sussess	9	UICC → ME		
Signature   Sig		$ME \to UICC$	FETCH	
12	11	$UICC \to ME$		
13 USS → ME  ME → UICC  ME → UICC  ME → UICC → ME  ME → UICC  ME → UICC → ME  UICC → ME  ME → UICC → ME  ME → UICC → ME  ME → UICC → ME  ME → UICC → ME  ME → UICC → ME  UICC → ME  UICC → ME  ME → UICC → ME  ME → UICC → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  UICC → ME  ME → UICC → ME  U	12	$ME \to USS$		
15 UICC → ME → UICC 17 UICC → ME			PDP context deactivation accept	
15 UICC → ME 16 ME → UICC 17 UICC → ME 18 ME → USER 19 USER → ME 20 Confirmation phase with alpha ID 19 USER → ME 21 USER → ME 22 ME → UICC 23 UICC → ME 24 ME → UICC 25 UICC → ME 26 ME → UICC 27 UICC → ME 28 ME → UICC 28 ME → UICC 29 UICC → ME 20 ME → UICC 31 UICC → ME 30 ME → UICC 31 UICC → ME 31 ME → UICC 32 UICC → ME 33 WE → UICC 34 ME → UICC 35 UICC → ME 36 ME → UICC 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 ME → UICC 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 30 UICC → ME 31 UICC → ME 32 ME → UICC 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 UICC → ME 39 ME → UICC 40 ME 40 ME → UICC 41 PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.9.1 40 Confirmation phase with alpha ID 41 The user confirms 42 PDP context activation accept Terminolar phase with alpha ID 42 ME → UICC 43 UICC → ME 44 ME → UICC 45 UICC → ME 46 ME → UICC 47 UICC → ME 47 UICC → ME 47 UICC → ME 48 ME → UICC 48 UICC → ME 49 UICC → ME 40 ME → UICC 40 ME 41 ME → UICC 41 ME → UICC 41 ME → UICC 42 ME → UICC 43 UICC → ME 44 ME → UICC 45 UICC → ME 46 ME → UICC 47 UICC → ME 47 UICC → ME 47 UICC → ME 48 ME → UICC 48 UICC → ME 49 UICC → ME 40 ME → UICC 41 ME → UICC 41 ME → UICC 42 ME → UICC 43 UICC → ME 41 ME → UICC 42 ME → UICC 43 UICC → ME 41 ME → UICC 42 ME → UICC 43 UICC → ME 44 ME → UICC 44 ME → UICC 45 UICC → ME 46 ME → UICC 47 UICC → ME 47 UICC → ME 47 UICC → ME 48 ME → UICC 48 UICC → ME 49 UICC → ME 40 ME → UICC 40 ME → UICC 40 ME → UICC 40 ME →	14	$ME \rightarrow UICC$		[Command performed successfully]
He → UICC → ME    ME → UISC	15	$UICC \to ME$		
17 UICC → ME  18				
Solution   Solution				
19 USER → ME ME → USS 21 USS → ME ME → UICC 22 ME → UICC → ME 23 UICC → ME 24 ME → UICC 25 UICC → ME 26 ME → UICC 27 UICC → ME 28 ME → UICC 39 UICC → ME 29 UICC → ME 29 UICC → ME 30 ME → UICC 31 UICC → ME 31 ME → UICC 31 UICC → ME 32 ME → UICC 31 UICC → ME 33 UICC → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 ME → UICC 31 UICC → ME 32 ME → UICC 31 UICC → ME 33 USER → ME 34 ME → USS 35 ME 36 ME → UICC 36 ME → USS 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 USER → ME 34 ME → USER 35 ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 USER → ME 32 ME → USER 33 USER → ME 34 ME → USER 35 USS → ME 36 ME → UICC 5.9.1	''	OICC → IVIE		
20				[alpha identifier is displayed with strikethrough off]
21 USS → ME 22 ME → UICC  23 UICC → ME 24 ME → UICC  25 UICC → ME 26 ME → UICC  27 UICC → ME 28 ME → UICC  29 UICC → ME 29 UICC → ME 30 ME → UICC  31 UICC → ME 31 UICC → ME 32 ME → UICC 31 UICC → ME 33 USS → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 39 USS → ME 30 ME → UICC 30 ME → UICC 31 UICC → ME 31 USER → ME 32 ME → UICC 33 USS → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 39 USS → ME 30 ME → UICC 31 UICC → ME 31 USER → ME 32 USS → ME 33 USS → ME 34 ME → UICC 35 UICC → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 39 USS → ME 30 ME → UICC 30 (IICC → ME) 31 UICC → ME 32 (IICC → ME) 33 USS → ME 34 ME → UICC 35 (IICC → ME) 36 (IICC → ME) 37 UICC → ME 37 UICC → ME 38 (IICC → ME) 39 (IICC → ME) 40 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 42 (IICC → ME) 43 (IICC → ME) 44 (IICC → ME) 45 (IICC → ME) 46 (IICC → ME) 47 (IICC → ME) 47 (IICC → ME) 48 (IICC → ME) 49 (IICC → ME) 40 (IICC → ME) 40 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 42 (IICC → ME) 43 (IICC → ME) 44 (IICC → ME) 44 (IICC → ME) 45 (IICC → ME) 46 (IICC → ME) 47 (IICC → ME) 47 (IICC → ME) 48 (IICC → ME) 48 (IICC → ME) 49 (IICC → ME) 40 (IICC → ME) 40 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 41 (IICC → ME) 42 (IICC → ME) 43 (IICC → ME) 44 (IICC → ME)				The LIE may request IPv4 or IPv4v6 address as
22 ME → UICC  TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A  or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B  PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  PDP context deactivation request DPD context deactivation request TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1  PDP context deactivation PENDING : OPEN CHANNEL 5.1.1  PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1  PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1  PROACTIVE COMMAND OPEN CHANNEL 5.9.1  ME → UICC ME → UICC → ME UICC → ME  VICC → ME  NE → USS  ME →	20	IVIE → USS	T Di context activation request	
5.9.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1  26			·	
or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 FETCH PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 PDP context deactivation request PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 POP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1  WE → UICC  ME → UICC → ME  WE → UICC  ME → UICC → ME  WE → UICC  ME → UICC → ME  UICC → ME  WE → UICC  ME → UICC → ME  ME → UICC   ME  ME → UICC   ME  ME → UICC   ME  ME → UICC   ME  ME → UICC  ME → U	22	$ME \rightarrow UICC$		[Command performed successfully]
5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1 FETCH PROACTIVE COMMAND: CLOSE CHANNEL 5.1.1 PDP context deactivation request PDP context deactivation accept TERMINAL RESPONSE: CLOSE CHANNEL 5.9.1  ME → UICC  ME → USS  ME → UICC  ME → USS  ME → UICC  ME → U			or	
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       ME → USS         27       USS → ME       PDP context deactivation request         28       ME → UICC       TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1         29       UICC → ME       PDP context deactivation accept         30       ME → UICC       TETCH         31       UICC → ME       PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1         32       ME → USS       Confirmation phase with alpha ID       [alpha identifier is displayed with strikethrough on]         33       USS → ME       ME → USS       PDP context activation request       [The UE may request IPv4 or IPv4v6 address as PDP type.]         35       USS → ME       ME → UICC       TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B       [Command performed successfully]         37       UICC → ME       PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1       [Command performed successfully]				
24  ME → UICC   25  UICC → ME    26  ME → USS   27  USS → ME   28  ME → UICC    29  UICC → ME    30  ME → UICC    31  UICC → ME    32  ME → USER   33  USER → ME   34  ME → USS   35  USS → ME   ME → UICC    36  ME → UICC    37  UICC → ME    38  ME → USER   39  ME → USER   30  ME → USER   30  ME → USER   31  USER → ME   32  ME → USER   33  USER → ME   34  ME → USS    35  USS → ME   36  ME → UICC    37  UICC → ME    38  ME → UICC    39  ME → USER   39  ME → USER   39  ME → USER   30  ME → USER   30  ME → USER   31  USER → ME   32  ME → USER   33  USER → ME   34  ME → USE   35  ME → USE   36  ME → UICC    37  UICC → ME    38  ME → UICC    39  ME → USER   30  ME → USER   31  ME → USER   32  ME → USER   33  ME → USER   34  ME → USER   35  ME → USER   36  ME → USER   37  ME → USER   38  ME → USER   39  ME → USER   39  ME → USER   30  ME → U	23	$UICC \to ME$		
UICC → ME  ME → USS  TERMINAL RESPONSE : CLOSE CHANNEL  5.1.1  PDP context deactivation request PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL  5.1.1  PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1  PETCH PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1  PETCH PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1  PETCH PROACTIVE COMMAND : OPEN CHANNEL 5.9.1  Confirmation phase with alpha ID The user confirms ME → USS  ME → USS  WSS → ME ME → USS  ME → UICC  TERMINAL RESPONSE : OPEN CHANNEL 5.9.1  TERMINAL RESPONSE : OPEN CHANNEL 5.9.1  TERMINAL RESPONSE : OPEN CHANNEL 5.9.1  Or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1  TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B  PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	0.4			
5.1.1 PDP context deactivation request PDP context deactivation accept TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1 PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1 FETCH PROACTIVE COMMAND : OPEN CHANNEL 5.9.1 Confirmation phase with alpha ID The user confirms PDP context activation request  PDP context activation request  PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A Or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B PROACTIVE COMMAND PENDING: Command performed successfully]  [Command performed successfully]  [Command performed successfully]				
27 USS → ME ME → UICC 28 ME → UICC 29 UICC → ME 30 ME → UICC 31 UICC → ME 31 UICC → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → USER 30 ME → USER 31 USER → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 39 UICC → ME 30 ME → USER 30 ME → USER 31 USER → ME 32 ME → USER 33 USS → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 (Command performed successfully)  [The UE may request IPv4 or IPv4v6 address as PDP type.]  [Command performed successfully]  [Command performed successfully]	20	0100 → IVIL		
28  ME → UICC 5.1.1  TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1  PROACTIVE COMMAND PENDING : OPEN CHANNEL 5.9.1  FETCH 9ROACTIVE COMMAND : OPEN CHANNEL 5.9.1  Confirmation phase with alpha ID The user confirms 9DP context activation request 9DP type.]  [alpha identifier is displayed with strikethrough on]  The USER → ME ME → USS 9DP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A				
UICC → ME    Solition			[Command performed successfully]	
30 ME → UICC 31 ME → USER UICC → ME  32 ME → USER USER → ME 34 ME → USS  35 USS → ME 36 ME → UICC  37 UICC → ME  38 USC → ME 39 USC → ME 39 USC → ME 30 ME → USC  30 ME → USC  31 ME → USC  32 ME → USC  33 USS → ME 34 ME → USC  35 USS → ME 36 ME → UICC  36 ME → UICC  37 UICC → ME  38 UICC → ME  39 UICC → ME  30 ME → USC  40 ME → USC  41 ME → USC  42 ME → UICC  43 ME → UICC  44 MICC → ME  45 ME → UICC  46 ME → UICC  47 ME → UICC  48 ME → UICC  48 ME → UICC  49 ME → UICC  40 ME → UICC  40 ME → UICC  40 ME → UICC  40 ME → UICC  40 ME → UICC  40 ME → UICC  40 ME → UICC  41 ME → UICC  50 ME → UICC  50 ME → UICC  50 ME → UICC → ME  40 ME → UICC  50 ME → UICC  50 ME → UICC  50 ME → UICC  60 ME → UICC  70 ME → UICC  70 ME → UICC  80 ME → UICC  70 ME → UICC  80 ME → UICC  70 ME → UICC  80 ME → UICC  80 ME → UICC  80 ME → UICC  90 ME → UICC  10 ME → UICC  11 ME → UICC  12 ME → UICC  13 ME → UICC  14 ME → UICC  15 ME → UICC  16 ME → UICC  17 ME → UICC  17 ME UE may request IPv4 or IPv4v6 address as PDP type.]  17 ME → UICC  18 ME → UICC  18 ME → UICC  19 ME → UICC  10 ME → UICC  11 ME → UICC  11 ME → UICC  12 ME → UICC  13 ME → UICC  14 ME → UICC  15 ME → UICC  16 ME → UICC  17 ME → UICC  17 ME → UICC  17 ME → UICC  17 ME → UICC  18 ME → UICC  18 ME → UICC  18 ME → UICC  19 ME → UICC  10 ME → UI			5.1.1	[[
30 ME → UICC 31 VICC → ME 32 ME → USER 33 USER → ME 34 ME → USS 35 USS → ME 36 ME → UICC 37 VICC → ME 38 VICC → ME 39 VICC → ME 30 VICC → ME 30 VICC → ME 31 VICC → ME 32 ME → USS 33 VICC → ME 34 VICC → ME 35 VICC → ME 36 VICC → ME 37 VICC → ME 37 VICC → ME	29	$UICC \to ME$		
31 UICC → ME 5.9.1  32 ME → USER USER → ME USER USER → ME ME → USS  33 USS → ME ME → UICC  36 ME → UICC  37 UICC → ME  38 USS → ME ME → UICC  38 USS → ME ME → UICC  39 PDP context activation request  30 UICC → ME  31 UICC → ME  32 ME → UICC  33 USS → ME ME → UICC  34 DICC → ME  35 USS → ME ME → UICC  36 DICC → ME  37 UICC → ME  38 PROACTIVE COMMAND : OPEN CHANNEL 5.9.1  5.9.1  5.9.1  6 Command performed successfully]  6 Command performed successfully]	30	$ME \to UICC$		
32 ME → USER USER → ME USER → ME The user confirms 34 ME → USS 35 USS → ME ME → UICC 36 ME → UICC 37 UICC → ME 38 ME → UICC 38 DPD context activation request 39 PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				
33 USER → ME	32	ME → USER		[alpha identifier is displayed with strikethrough on]
35 USS → ME ME → UICC PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				[a.p. a last and its alsplayed man sum sum sugger on]
35 USS → ME ME → UICC PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	34	$\text{ME} \to \text{USS}$	PDP context activation request	
36 ME → UICC TERMINAL RESPONSE : OPEN CHANNEL 5.9.1A or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1	35	$USS \to MF$	PDP context activation accept	PDP (ype.]
or TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				[Command performed successfully]
TERMINAL RESPONSE : OPEN CHANNEL 5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				
37 UICC → ME 5.9.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 5.1.1				
CHANNEL 5.1.1			5.9.1B	
	37	UICC → ME		
•	38	$ME \to UICC$		

39	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
00	OICC → IVIL	5.1.1	
40	$ME \to USS$	PDP context deactivation request	
41	$USS \to ME$	PDP context deactivation accept	
42	$ME \to UICC$	TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
		5.1.1	
43	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	
		CHANNEL 5.9.3	
44	$ME \rightarrow UICC$	FETCH	
45	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL	
46	ME LIGED	5.9.3	[alpha identifier is displayed with strikethrough off]
46	ME → USER	Confirmation phase with alpha ID The user confirms	[alpha identifier is displayed with strikethrough off]
	USER → ME		IThe LIE many required IDv4 or IDv4vC address of
48	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
49	$USS \to ME$	PDP context activation accept	i bi type.j
50	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
	WE 70100	5.9.1A	[Command ponomica decession,]
		or	
		TERMINAL RESPONSE : OPEN CHANNEL	
		5.9.1B	
51	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE	
		CHANNEL 5.1.1	
52	$ME \rightarrow UICC$	FETCH	
53	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
E 4	ME LIGO	5.1.1	
54 55	ME → USS	PDP context deactivation request	
55	$USS \to ME$	PDP context deactivation accept	
56	$ME \rightarrow UICC$	TERMINAL RESPONSE : CLOSE CHANNEL 5.1.1	[Command performed successfully]
		J. I. I	

## 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
	80	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:

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	$UICC \to ME$	PROACTIVE COMMAND PENDING : OPEN	
		CHANNEL 5.10.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 5.10.1	
4	$ME \rightarrow USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with foreground and
	WIE 700ER	Communication prices of the superior (2)	background colour according to the text attribute]
5	$USER \to ME$	The user confirms	
6	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as
7	LICO ME	DDD contact activation accept	PDP type.]
7	USS → ME	PDP context activation accept TERMINAL RESPONSE : OPEN CHANNEL	[Common and months was and accommon fields.]
8	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL   5.10.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE : OPEN CHANNEL	
		5.10.1B	
9	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE	
10	ME	CHANNEL 5.1.1	
10 11	$ME \to UICC$ $UICC \to ME$	FETCH PROACTIVE COMMAND: CLOSE CHANNEL	
''	OICC → IVIE	5.1.1	
12	$ME \to USS$	PDP context deactivation request	
13	$USS \to ME$	PDP context deactivation accept	
14	$ME \to UICC$	TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
		5.1.1	
15	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 5.10.2	
16	$ME \to UICC$	FETCH	
17	$UICC \rightarrow ME$	PROACTIVE COMMAND : OPEN CHANNEL	
	0100 / IIIL	5.10.2	
18	$ME \to USER$	Confirmation phase with alpha ID	[alpha identifier is displayed with ME's default
4.0			foreground and background colour]
19	USER → ME	The user confirms	IThe LIE many requires IDv4 on IDv4vC address of
20	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
21	$USS \to ME$	PDP context activation accept	T Bit type.]
22	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL	[Command performed successfully]
		5.10.1A	,,
		or	
		TERMINAL RESPONSE : OPEN CHANNEL	
23	$UICC \to ME$	5.10.1B  PROACTIVE COMMAND PENDING: CLOSE	
25	UICC → IVIE	CHANNEL 5.1.1	
24	$ME \to UICC$	FETCH	
25	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
		5.1.1	
26	$ME \rightarrow USS$	PDP context deactivation request	
27	USS → ME	PDP context deactivation accept	[Common dispersed access =fi-ll-1
28	$ME \rightarrow UICC$	TERMINAL RESPONSE : CLOSE CHANNEL	[Command performed successfully]
		5.1.1	

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 accressing E-UTRAN/EPC. The TERMINAL RESPONSE sent back to the UICC is the result of the ME and the network capabilities against requested parameters by the UICC.

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

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

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

27.22.4.27.6.4 Method of test

27.22.4.27.6.4.1 Initial conditions

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

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

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

User login: UserLog User password: UserPwd

UICC/ME interface transport level

Transport format: TCP
Port number: 44444

Data destination address: 01.01.01.01 (as an example)

Note: If a data destination address different to 01.01.01.01 is used then the same value is used

in the content of the affected Open Channel commands and the network simulator setup

and related UE settings might require a corresponding adaptation.

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

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

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

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

In case the ME supports A.1/173 AND A.1/174 AND A.1/176, for sequence 6.1 and 6.3 the NB-SS 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	$USER \to ME$	Set and configure APN "TestGp.rs" in the terminal configuration if required	[see initial conditions] If the ME supports A.1/173 AND NOT A.1/174 only one APN will be activated in step 7.
2	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.1.1	
3	$ME \rightarrow UICC$	FETCH	
4	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 6.1.1	
5	$ME \rightarrow USER$	The ME may display channel opening information	
6	$\begin{array}{c} \text{ME} \rightarrow \text{E-} \\ \text{USS/NB-SS} \end{array}$	PDN CONNECTIVITY REQUEST	[The UE may request IPv4 or IPv4v6 address as PDP type.]
7	E-USS/NB- SS → ME	ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST	[The E-UTRAN parameters are used]
8	ME → E- USS/NB-SS	ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT	
9	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 6.1.1A OR TERMINAL RESPONSE : OPEN CHANNEL 6.1.1B	[Command performed successfully OR Command performed with modifications]

#### PROACTIVE COMMAND: OPEN CHANNEL 6.1.1

#### Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC Destination device: ME

Bearer

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

Precedence Class: 03
Delay Class: 04
Reliability Class: 02
Peak throughput class: 09
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400 Network access name: TestGp.rs

Text String: "UserLog" (User login)
Text String: "UserPwd" (User password)

UICC/ME interface transport level Transport format: TCP

Port number: 44444
Data destination address 01.01.01.01

Coding:

BER-TLV:	D0	42	81	03	01	40	01	82	02	81	82	35
	07	02	03	04	02	09	1F	02	39	02	05	78
	47	0A	06	54	65	73	74	47	70	02	72	73
	0D	08	F4	55	73	65	72	4C	6F	67	0D	80
	F4	55	73	65	72	50	77	64	3C	03	02	AD
	9C	3E	05	21	01	01	01	01				

#### TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

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

Bearer parameter:

Precedence Class: 03
Delay Class: 04
Reliability Class: 02
Peak throughput class: 09
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

#### Coding:

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

## TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B

Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed with modifications

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

Bearer description

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

Bearer parameter:

Precedence Class: 03
Delay Class: 04
Reliability Class: 02
Peak throughput class: 09
Mean throughput class: 31

867

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

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

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

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

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:

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC
Destination device: ME

Bearer

Bearer type: E-UTRAN / mapped UTRAN packet service

QCI 9

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

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

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

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

Maximum bit rate for uplink (extended): 0
Maximum bit rate for downlink (extended): 0
Guaranteed bit rate for uplink (extended): 0
Guaranteed bit rate for downlink (extended): 0
PDN Type: IP

Buffer

Buffer size: 1400 Network access name: Test12.rs

Text String: "UserLog" (User login)
Text String: "UserPwd" (User password)

UICC/ME interface transport level
Transport format: TCP

Port number: 44444
Data destination address 01.01.01.01

#### Coding:

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

TERMINAL RESPONSE: OPEN CHANNEL 6.2.2A

same as TERMINAL RESPONSE: OPEN CHANNEL 6.2.1A

TERMINAL RESPONSE: OPEN CHANNEL 6.2.2B

same as TERMINAL RESPONSE: OPEN CHANNEL 6.2.1B

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

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

#### PROACTIVE COMMAND: OPEN CHANNEL 6.3.1

## Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC Destination device: ME

Alpha Identifier: "Open Channel for UICC?"

Bearer

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

Precedence Class: 03
Delay Class: 04
Reliability Class: 02
Peak throughput class: 09
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400 Network access name: Test12.rs

Text String: "UserLog" (User login)
Text String: "UserPwd" (User password)

UICC/ME interface transport level

Transport format: TCP
Port number: 44444
Data destination address 01.01.01.01

Coding:

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

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

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

#### 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	3	Note 2								
		Note1:	The presence and content of the Channel Status TLV shall not be												
			verified.												
		Note 2:	The buffer size TLV shall be present and because the value depends in												
			this case on the terminal's implementation, the value shall be ignored.												

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

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

#### 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

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 execptions 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.

## EFUICCIARI (UICC IARI list)

Record 1:

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

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

## 27.22.4.27.7.4.2 Procedure

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

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

## PROACTIVE COMMAND: SET UP EVENT LIST 7.1.1

## Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: UICC Destination device: ME

Event list

Event 1: IMS Registration Event

Coding:

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

TERMINAL RESPONSE: SET UP EVENT LIST 7.1.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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

**EVENT DOWNLOAD - IMS Registration 7.1.1** 

Logically:

Event list

Event 1: IMS Registration

Device identities

Source device: Network
Destination device: UICC

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

Coding:

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

EVENT DOWNLOAD - IMS Registration 7.1.2

Logically:

Event list

Event 1: IMS Registration

Device identities

Source device: Network
Destination device: UICC

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

Coding:

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

## PROACTIVE COMMAND: OPEN CHANNEL for IMS 7.1.1

## Logically:

Command details

Command number: 01

Command type: OPEN CHANNEL

Command qualifier: 00 (RFU)

Device identities

Source device: UICC Destination device: ME

Buffer

Buffer size: 1400

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

Coding:

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

### TERMINAL RESPONSE: OPEN CHANNEL 7.1.1

#### Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: 00 (RFU)

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully Channel status Channel identifier 1, link established.

Buffer

Buffer size: 1400

Coding:

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

# 27.22.4.27.7.5 Test requirement

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

#### 27.22.4.28 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \to USER$	The ME may display channel opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.1.1	
9	$ME \to UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 1.1.1	
11	$ME \to USS$	PDP context deactivation request	
12		PDP context deactivation accept	
13	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 1.1.1	[Command performed successfully]

#### PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

### Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: UICC Destination device: ME

Bearer

Bearer type: GPRS

Bearer parameter:

Precedence Class: 03
Delay Class: 04
Reliability Class: 03
Peak throughput class: 04
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size: 1000 Network access name: TestGp.rs

Text String: UserLog (User login)
Text String: UserPwd (User password)

UICC/ME interface transport level
Transport format: UDP
Port number: 44444
Data destination address 01.01.01.01

#### Coding:

BER-TLV

D0	42	81	03	01	40	01	82	02	81	82	35
07	02	03	04	03	04	1F	02	39	02	03	E8
47	0A	06	54	65	73	74	47	70	02	72	73
0D	80	F4	55	73	65	72	4C	6F	67	0D	80
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	F8							

### 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:

	0.4	00	04	4.4	9	0	00	20	- 4	~ ~	- 4	~ ~
BER-TLV:	1 81	1 ()3	I ()1	41	1 00	1 82	()2	1 82	l 81	l 83	()1	00

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

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL	
		1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 1.2.1	
9	$ME \to UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1	
11	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 1.2.1	[Invalid channel number]

PROACTIVE COMMAND: CLOSE CHANNEL 1.2.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC
Destination device: Channel 2

Coding:

BER-TLV:	D0	09	81	03	01	41	00	82	02	81	22
DLIX ILV.		00	01	00	01	71	00	02	02	01	~~

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

PROACTIVE COMMAND: CLOSE CHANNEL 1.3.1

Logically:

Command details

Command number:

Command type: CLOSE CHANNEL

1

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										
	BER-TLV:	D0	09	81	01	41	00		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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL	See initial conditions
		1.1.1	
2	III_ / 0.00	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \to USER$	The ME may display channel	
5	$ME \to USS$	opening information PDP context activation request	[The UE may request IPv4 or IPv4v6 address
			as PDP type.]
6 7	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context activation accept TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
8	$UICC \to ME$	or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.1.1A	
9	ME → UICC	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 2.1.1	[alpha identifier is displayed with left alignment]
11	$ME \to USS$	PDP context deactivation	angrimoni
12	$USS \to ME$	request PDP context deactivation accept	
13	$ME \to UICC$		[Command performed successfully]
14	$UICC \to ME$	CHANNEL 2.1.1 PROACTIVE COMMAND PENDING: OPEN CHANNEL	
15	ME → UICC	1.1.1 FETCH	
16	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	$ME \rightarrow USER$	The ME may display channel opening information	
18	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
19	USS → ME	PDP context activation accept	[Common day of support of support of the day
20	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or	[Command performed successfully]
21	$UICC \to ME$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.1.2	
22 23	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: CLOSE CHANNEL 2.1.2	[Message shall be formatted without left alignment. Remark: If left alignment is the ME's default alignment as declared in table A.2/20, no alignment change will take place]
24	$ME \rightarrow USS$	PDP context deactivation	7.2.2.5, The diligitation change will take place
25	$USS \to ME$	request PDP context deactivation accept	
26	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.1.1	[Command performed successfully]

PROACTIVE COMMAND: CLOSE CHANNEL 2.1.1

Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC Destination device: Channel 1

Alpha Identifier "Close ID 1"

Text Attribute

Formatting position: 0 Formatting length: 10

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

Strikethrough Off

Colour: Dark Green Foreground, Bright Yellow Background

Coding:

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

#### PROACTIVE COMMAND: CLOSE CHANNEL 2.1.2

## Logically:

Command details

Command number: 1

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: UICC Destination device: Channel 1

Alpha Identifier "Close ID 2"

Coding:

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

#### TERMINAL RESPONSE: CLOSE CHANNEL 2.1.1

#### Logically:

Command details

Command number:

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL	
2	ME LUCC	1.1.1 FETCH	
3	$ME \rightarrow UICC$ $UICC \rightarrow ME$	PROACTIVE COMMAND:	
3		OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel	
		opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
			as PDP type.]
6 7	USS → ME	PDP context activation accept TERMINAL RESPONSE: OPEN	[Command performed augeografully]
'	$ME \rightarrow UICC$	CHANNEL 1.1.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL 2.2.1	
9	ME → UICC	FETCH	
10	UICC → ME	PROACTIVE COMMAND:	[alpha identifier is displayed with center
		CLOSE CHANNEL 2.2.1	alignment]
11	$ME \to USS$	PDP context deactivation	
40	1100 145	request	
12 13	USS → ME	PDP context deactivation accept	[Command performed successfully]
13	$ME \rightarrow UICC$	CHANNEL 2.2.1	[Command performed successfully]
14	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: OPEN CHANNEL	
1		1.1.1	
15	/ 0.00	FETCH	
16	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	$ME \rightarrow USER$	The ME may display channel	
	, , , , ,	opening information	
18	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
40			as PDP type.]
19 20	USS → ME	PDP context activation accept	[Command performed augeografidhd]
20	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN ICHANNEL 1.1.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
21	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL 2.2.2	
22	ME → UICC	FETCH	
23	UICC → ME	PROACTIVE COMMAND:	[Message shall be formatted without center
		CLOSE CHANNEL 2.2.2	alignment. Remark: If center alignment is the
			ME's default alignment as declared in table
24	ME	DDD contact description	A.2/20, no alignment change will take place]
24	$ME \rightarrow USS$	PDP context deactivation request	
25	$USS \to ME$	PDP context deactivation accept	
26	ME → UICC	•	[Command performed successfully]
		CHANNEL 2.2.1	

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:

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	$UICC \to ME$	PROACTIVE COMMAND PENDING:	See initial conditions
		OPEN CHANNEL 1.1.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	ME → USER	The ME may display channel opening	
7	IVIE → USER	linformation	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6
	/ 555		address as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A	
		Or	
		TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	
8	UICC → ME	PROACTIVE COMMAND PENDING:	
	OIOO / IVIL	CLOSE CHANNEL 2.3.1	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with right
		CHANNEL 2.3.1	alignment]
11	$ME \rightarrow USS$	PDP context deactivation request	
12	$USS \to ME$	PDP context deactivation accept	
13	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.3.1	[Command performed successfully]
14	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
14	OICC → IVIE	OPEN CHANNEL 1.1.1	
15	$ME \rightarrow UICC$	FETCH	
16	$UICC \to ME$	PROACTIVE COMMAND:	
		OPEN CHANNEL 1.1.1	
17	$ME \rightarrow USER$	The ME may display channel opening	
40	NAT 1100	information	IThe LIE many we give at ID: 4 or ID: 4.4
18	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
19	$USS \to ME$	PDP context activation accept	address as i Di type.j
20	ME → UICC	TERMINAL RESPONSE: OPEN	[Command performed successfully]
	/ 0.00	CHANNEL 1.1.1A	[
		or	
		TERMINAL RESPONSE: OPEN	
0.4		CHANNEL 1.1.1B	
21	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.3.2	
22	$ME \to UICC$	FETCH	
23	$UICC \rightarrow ME$	PROACTIVE COMMAND: CLOSE	[Message shall be formatted without right
	OIOO / IVIL	CHANNEL 2.3.2	alignment. Remark: If right alignment is
			the ME's default alignment as declared in
			table A.2/20, no alignment change will
		555	take place]
24	ME → USS	PDP context deactivation request	
25 26	USS → ME	PDP context deactivation accept	[Command performed successfully]
26	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.3.1	[Command performed successfully]
		OLIVIALE 5'9' I	

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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
	ME	PENDING: OPEN CHANNEL 1.1.1	
2 3	$ME \to UICC$ $UICC \to ME$	FETCH  PROACTIVE COMMAND:	
<u>ه</u>	JICC → ME	OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	,
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or	[Command performed successfully]
		TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL 2.4.1	
9	$ME \to UICC$	FETCH	
10	UICC → ME	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with large font
,		CHANNEL 2.4.1	size]
11	ME → USS	PDP context deactivation request	
12 13	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context deactivation accept TERMINAL RESPONSE CLOSE	[Command performed successfully]
13	IVI⊏ → UICC	CHANNEL 2.4.1	[Sommand performed successfully]
14	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	$ME \to UICC$	FETCH	
16	$UICC \to ME$	PROACTIVE COMMAND:	
4-7	ME	OPEN CHANNEL 1.1.1	
17	$ME \rightarrow USER$	The ME may display channel opening information	
18	$ME \to USS$	PDP context deactivation request	
19	USS → ME	PDP context deactivation accept	
20	ME → UICC	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A	
		or TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
21	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL	
20	ME LUGG	2.4.2 FETCH	
22 23	$ME \to UICC$ $UICC \to ME$	FETCH PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with normal font
	JIJU → IVIE	CHANNEL 2.4.2	size
24	$ME \to USS$	PDP context deactivation request	<sup>-</sup>
25	$USS \to ME$	PDP context deactivation accept	
26	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE	[Command performed successfully]
27		CHANNEL 2.4.1 PROACTIVE COMMAND	
<u> </u>	$UICC \to ME$	PENDING: OPEN CHANNEL 1.1.1	
28	$ME \rightarrow UICC$	FETCH	
29	UICC → ME	PROACTIVE COMMAND:	
		OPEN CHANNEL 1.1.1	
30	$ME \rightarrow USER$	The ME may display channel opening information	
31	ME  o USS	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
		·	as PDP type.]
32	USS → ME	PDP context activation accept	
33	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
34	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL 2.4.1	
ı İ	I	ړد.⊤. ۱	ı

35	$ME \to UICC$		
36	$UICC \to ME$	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with large font
37	ME → USS	CHANNEL 2.4.1 PDP context deactivation request	size]
38	USS → ME	PDP context deactivation request	
39		TERMINAL RESPONSE CLOSE	[Command performed successfully]
		CHANNEL 2.4.1	
40	$UICC \to ME$	PROACTIVE COMMAND	
41	ME → UICC	PENDING: OPEN CHANNEL 1.1.1 FETCH	
41	, 0.00	PROACTIVE COMMAND:	
42	UICC → ME	OPEN CHANNEL 1.1.1	
43	ME → USER	The ME may display channel	
		opening information	
44	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
			as PDP type.]
45	$USS \to ME$	PDP context activation accept	
46	$ME \to UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE: OPEN	
47	LUCO ME	CHANNEL 1.1.1B PROACTIVE COMMAND	
47	$UICC \to ME$	PENDING: CLOSE CHANNEL	
		2.4.3	
48	$ME \rightarrow UICC$	FETCH	
49	$UICC \to ME$	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with normal font
		CHANNEL 2.4.3	size]
50	$ME \rightarrow USS$	PDP context deactivation request	
51	$USS \to ME$	PDP context deactivation accept	
52	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE	[Command performed successfully]
		CHANNEL 2.4.1	

#### 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:

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	ì
	85	0A	43	6C	6F	73	65	20	49	44	20	i
	33											ì

#### 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

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	See initial conditions
	NAT 1	PENDING: OPEN CHANNEL 1.1.1	
2	$ME \to UICC$ $UICC \to ME$	FETCH PROACTIVE COMMAND:	
3	UICC → ME	OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$		
		opening information	
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	ao : 5: 'gpo.'j
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A	
		or TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL	
9	ME → UICC	2.5.1 FETCH	
10	$UICC \rightarrow ME$	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with small font
		CHANNEL 2.5.1	size]
11	$ME \rightarrow USS$	PDP context deactivation request	
12	USS → ME	PDP context deactivation accept	10 d d
13	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]
14	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	ME → USER	The ME may display channel	
	,	opening information	
18	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
19	$USS \to ME$	PDP context activation accept	as PDP type.]
20	ME → UICC	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A	
		OF	
		TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	
21	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL	
20	ME 11100	2.5.2	
22 23	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: CLOSE	alpha identifier is displayed with normal font
20		CHANNEL 2.5.2	size
24	$ME \to USS$	PDP context deactivation request	-
25	USS → ME	PDP context deactivation accept	
26	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]
27	$UICC \to ME$	PROACTIVE COMMAND	
	O.CO / IVIL	PENDING: OPEN CHANNEL 1.1.1	
28	$ME \rightarrow UICC$	FETCH	
29	$UICC \to ME$	PROACTIVE COMMAND:	
30	$ME \rightarrow USER$	OPEN CHANNEL 1.1.1 The ME may display channel	
	IVIL -> USLIX	opening information	
31	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
20	LICC - ME	DDD contout activation accept	as PDP type.]
32 33	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context activation accept TERMINAL RESPONSE: OPEN	[Command performed successfully]
33	IVIL -> UICC	CHANNEL 1.1.1A	[Communic performed successfully]
		or	
		TERMINAL RESPONSE: OPEN	
1	Į	CHANNEL 1.1.1B	1

34	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL	
		2.5.1	
35	$ME \rightarrow UICC$	FETCH	
36	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1	[alpha identifier is displayed with small font size]
37	$ME \rightarrow USS$	PDP context deactivation request	
38	$USS \to ME$	PDP context deactivation accept	
39	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]
40	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
41	$ME \rightarrow UICC$	FETCH	
42	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
43	$ME \rightarrow USER$	The ME may display channel opening information	
44	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
45	$USS \to ME$	PDP context activation accept	,, ,
46	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
		or TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
47	UICC → ME	PROACTIVE COMMAND	
	0.00 /	PENDING: CLOSE CHANNEL	
		2.5.3	
48	$ME \rightarrow UICC$	FETCH	
49	$UICC \to ME$	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with normal font
		CHANNEL 2.5.3	size]
50	$ME \rightarrow USS$	PDP context deactivation request	
51	$USS \to ME$	PDP context deactivation accept	
52	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.5.1	[Command performed successfully]

#### PROACTIVE COMMAND: CLOSE CHANNEL 2.5.1

## Logically:

Command details

Command number:

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

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

27.22.4.28.2.6.4.2 Procedure

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

5	Step	Direction	MESSAGE / Action	Comments
ľ	1	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
	2	ME LUCC	PENDING: OPEN CHANNEL 1.1.1	
	2		FETCH PROACTIVE COMMAND:	
		JIJO / IVIL	OPEN CHANNEL 1.1.1	
	4	$ME \to USER$	The ME may display channel	
	5	$ME \to USS$	opening information PDP context activation request	[The UE may request IPv4 or IPv4v6 address
		IVIL -> UUU	·	as PDP type.]
	6	$USS \to ME$	PDP context activation accept	
	7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
			or TERMINAL RESPONSE: OPEN	
	_		CHANNEL 1.1.1B	
	8	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL	
	9	$ME \rightarrow UICC$	2.6.1 FETCH	
	10	/ 0.00	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with bold on]
			CHANNEL 2.6.1	
	11 12	$ME \rightarrow USS$ $USS \rightarrow ME$	PDP context deactivation request PDP context deactivation accept	
	13	ME → UICC		[Command performed successfully]
			CHANNEL 2.6.1	
	14	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
	15	$ME \to UICC$	FETCH	
	16		PROACTIVE COMMAND:	
	17	ME _ \ IIQED	OPEN CHANNEL 1.1.1 The ME may display channel	
	17	IVIE → USEK	opening information	
	18	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
	19 20	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context activation accept TERMINAL RESPONSE: OPEN	[Command performed successfully]
	20	IVIE → UICC	CHANNEL 1.1.1A	[Command performed successfully]
			or TERMINAL RESPONSE: OPEN	
			CHANNEL 1.1.1B	
	21	$UICC \to ME$	PROACTIVE COMMAND	
			PENDING: CLOSE CHANNEL 2.6.2	
	22		FETCH	
	23	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 2.6.2	[alpha identifier is displayed with bold off]
	24	$ME \to USS$	PDP context deactivation request	
	25	$USS \to ME$	PDP context deactivation accept	
	26	$ME \to UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]
	27	$UICC \to ME$	PROACTIVE COMMAND	
	28	$ME \to UICC$	PENDING: OPEN CHANNEL 1.1.1 FETCH	
	29		PROACTIVE COMMAND:	
	20		OPEN CHANNEL 1.1.1	
	30	ME → USER	The ME may display channel opening information	
	31	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
	32	$USS \to ME$	PDP context activation accept	
	33	$ME \to UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
			CHANNEL 1.1.1A or	
			TERMINAL RESPONSE: OPEN	
	ļ		CHANNEL 1.1.1B	l

34	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL	
0.5		2.6.1	
35	ME → UICC	FETCH	February and the state of the s
36	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1	[alpha identifier is displayed with bold on]
37	$ME \rightarrow USS$	PDP context deactivation request	
38	$USS \to ME$	PDP context deactivation accept	
39	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]
40	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
41	$ME \rightarrow UICC$	FETCH	
42	$UICC \rightarrow ME$	PROACTIVE COMMAND:	
		OPEN CHANNEL 1.1.1	
43	$ME \rightarrow USER$		
		opening information	
44	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
45	$USS \to ME$	PDP context activation accept	
46	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE: OPEN	
47	UICC → ME	CHANNEL 1.1.1B PROACTIVE COMMAND	
47	OICC → IVIE	PENDING: CLOSE CHANNEL	
		2.6.3	
48	ME → UICC	FETCH	
49	$UICC \rightarrow ME$	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with bold off]
		CHANNEL 2.6.3	
50	$ME \rightarrow USS$	PDP context deactivation request	
51	$USS \to ME$	PDP context deactivation accept	
52	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.6.1	[Command performed successfully]

#### PROACTIVE COMMAND: CLOSE CHANNEL 2.6.1

## Logically:

Command details

Command number:

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

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

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	See initial conditions
	<b></b>	PENDING: OPEN CHANNEL 1.1.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel	
		opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
		or TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.7.1	
9	ME  o UICC	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with bold on]
		CHANNEL 2.7.1	
11 12	$ME \rightarrow USS$	PDP context deactivation request	
12	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context deactivation accept TERMINAL RESPONSE CLOSE	[Command performed successfully]
.5	∟ 7 0100	CHANNEL 2.7.1	La commentation of the comments of the comment
14	$UICC \to ME$	PROACTIVE COMMAND	
45	ME	PENDING: OPEN CHANNEL 1.1.1	
15 16	$ME \to UICC$ $UICC \to ME$	FETCH PROACTIVE COMMAND:	
10	UICC → ME	OPEN CHANNEL 1.1.1	
17	$ME \to USER$	The ME may display channel	
		opening information	The HE was a second sec
18	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
19	$USS \to ME$	PDP context activation accept	
20	$ME \to UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
21	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL 2.6.2	
22	ME  o UICC	FETCH	
23	$UICC \to ME$	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with bold off]
		CHANNEL 2.7.2	
24	$ME \rightarrow USS$	PDP context deactivation request	
25 26	USS → ME	PDP context deactivation accept	[Command performed expenses to the d
26	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.7.1	[Command performed successfully]
27	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: OPEN CHANNEL 1.1.1	
28	ME → UICC	FETCH	
29	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
30	$ME \rightarrow USER$	The ME may display channel	
		opening information	
31	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
32	$USS \to ME$	PDP context activation accept	
33	ME → UICC	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A	
		or TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
, I	•		

34	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL	
35	ME → UICC	2.7.1 FETCH	
36	UICC → ME	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with bold on]
	OIGG / WIE	CHANNEL 2.7.1	
37	$ME \rightarrow USS$	PDP context deactivation request	
38	$USS \to ME$	PDP context deactivation accept	
39	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE	[Command performed successfully]
40	LUCO ME	CHANNEL 2.7.1 PROACTIVE COMMAND	
40	$UICC \to ME$	PENDING: OPEN CHANNEL 1.1.1	
41	ME → UICC	FETCH	
42	UICC → ME	PROACTIVE COMMAND:	
		OPEN CHANNEL 1.1.1	
43	$ME \rightarrow USER$	, , ,	
4.4		opening information	TI 115 115 115 115 115 115 115 115 115 11
44	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
45	USS → ME	PDP context activation accept	as FDF type.]
46	ME → UICC	TERMINAL RESPONSE: OPEN	[Command performed successfully]
	, <u>.</u>	CHANNEL 1.1.1A	[Command pomonines escapedamy]
		or	
		TERMINAL RESPONSE: OPEN	
47		CHANNEL 1.1.1B	
47	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL	
		2.7.3	
48	$ME \rightarrow UICC$	FETCH	
49	$UICC \to ME$	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with bold off]
		CHANNEL 2.7.3	
50	$ME \rightarrow USS$	PDP context deactivation request	
51	$USS \to ME$	PDP context deactivation accept	
52	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE	[Command performed successfully]
<u></u>		CHANNEL 2.7.1	

#### 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

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

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	$UICC \to ME$	DDOACTIVE COMMAND	See initial conditions
2	ME  o UICC	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1 FETCH	
3		PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \to USER$	The ME may display channel opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6 7	$\begin{array}{c} \text{USS} \rightarrow \text{ME} \\ \text{ME} \rightarrow \text{UICC} \end{array}$	PDP context activation accept TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
8	$UICC \to ME$	or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.1	
9	/ 0.00	FETCH	
10		PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1	[alpha identifier is displayed with underline on]
11 12	$ME \to USS$ $USS \to ME$	PDP context deactivation request PDP context deactivation accept	
13	ME → UICC	TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]
14	$UICC \to ME$	PROACTIVE COMMAND	
15 16		PENDING: OPEN CHANNEL 1.1.1 FETCH PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	$ME \to USER$	The ME may display channel opening information	
18	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
19 20	$\begin{array}{c} \text{USS} \rightarrow \text{ME} \\ \text{ME} \rightarrow \text{UICC} \end{array}$	PDP context activation accept TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
21	$UICC \to ME$	or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.8.2	
22 23	$ME \to UICC$ $UICC \to ME$	FETCH PROACTIVE COMMAND: CLOSE CHANNEL 2.8.2	[alpha identifier is displayed with underline off]
24 25 26	$\begin{array}{c} ME \to USS \\ USS \to ME \\ ME \to UICC \end{array}$	PDP context deactivation request PDP context deactivation accept TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]
27	$UICC \to ME$	PROACTIVE COMMAND	
28 29		PENDING: OPEN CHANNEL 1.1.1 FETCH PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
30	$ME \to USER$	The ME may display channel opening information	
31	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
32	$USS \to ME$	PDP context activation accept	91-9

33	$ME \to UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
		or TERMINAL RESPONSE: OPEN	
34	$UICC \to ME$	CHANNEL 1.1.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL	
0.5		2.8.1	
35	ME → UICC	FETCH	[alpha identifier is displayed with underline an]
36	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 2.8.1	[alpha identifier is displayed with underline on]
37	$ME \rightarrow USS$	PDP context deactivation request	
38	$USS \to ME$	PDP context deactivation accept	
39	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.8.1	[Command performed successfully]
40	$UICC \to ME$		
		PROACTIVE COMMAND	
		PENDING: OPEN CHANNEL 1.1.1	
41	$ME \rightarrow UICC$	FETCH	
42	$UICC \to ME$	PROACTIVE COMMAND:	
40	ME HOED	OPEN CHANNEL 1.1.1	
43	$ME \rightarrow USER$	The ME may display channel opening information	
44	ME → USS	PDP context activation request	The UE may request IPv4 or IPv4v6 address
	IVIL -> 000	Di context activation request	as PDP type.]
45	$USS \to ME$	PDP context activation accept	as i Si iyperj
46	ME → UICC	TERMINAL RESPONSE: OPEN	[Command performed successfully]
	, , , ,	CHANNEL 1.1.1A	,,,
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
47	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL	
48	ME → UICC	2.8.3 FETCH	
49	UICC → ME	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with underline off]
73	UICC → IVIE	CHANNEL 2.8.3	[alpha lachtiller is displayed with didefille on]
50	$ME \rightarrow USS$	PDP context deactivation request	
51	USS → ME	PDP context deactivation accept	
52	ME → UICC	TERMINAL RESPONSE CLOSE	[Command performed successfully]
		CHANNEL 2.8.1	

#### 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

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:

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
D		00			00	U-	~ <u>~</u>	_ <del>_</del>	, o.			

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

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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
2	$ME \to UICC$	PENDING: OPEN CHANNEL 1.1.1  FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND:	
		OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
8	$UICC \to ME$	OT TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL	
0	ME . LUCC	2.9.1 FETCH	
9	$ME \to UICC$ $UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1	[alpha identifier is displayed with strikethrough on]
11	$ME \to USS$	PDP context deactivation request	on,
12	$USS \to ME$	PDP context deactivation accept	
13	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.9.1	[Command performed successfully]
14	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
15	ME → UICC	FETCH	
16	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
17	$ME \to USER$	The ME may display channel opening information	
18	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
19 20	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context activation accept TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or	[Command performed successfully]
21	$UICC \to ME$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B PROACTIVE COMMAND PENDING: CLOSE CHANNEL 2.9.2	
22	$ME \to UICC$	FETCH	
23	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.2	[alpha identifier is displayed with strikethrough off]
24	$ME \to USS$	PDP context deactivation request	
25 26	USS → ME	PDP context deactivation accept TERMINAL RESPONSE CLOSE	[Command performed successfully]
20	$ME \rightarrow UICC$	CHANNEL 2.9.1	[Command perioritied successfully]
27	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
28	ME → UICC	FETCH	
29	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
30	$ME \to USER$	The ME may display channel opening information	
31	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
32 33	$\begin{array}{c} \text{USS} \rightarrow \text{ME} \\ \text{ME} \rightarrow \text{UICC} \end{array}$	PDP context activation accept TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or	[Command performed successfully]
		TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	

34	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL	
		2.9.1	
35	ME → UICC	FETCH	
36	$UICC \to ME$	PROACTIVE COMMAND: CLOSE	[alpha identifier is displayed with strikethrough
		CHANNEL 2.9.1	on]
37	$ME \rightarrow USS$	PDP context deactivation request	
38	$USS \to ME$	PDP context deactivation accept	
39	$ME \to UICC$	TERMINAL RESPONSE CLOSE CHANNEL 2.9.1	[Command performed successfully]
40	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: OPEN CHANNEL 1.1.1	
41	$ME \rightarrow UICC$	FETCH	
42	$UICC \to ME$	PROACTIVE COMMAND:	
		OPEN CHANNEL 1.1.1	
43	$ME \rightarrow USER$		
		opening information	
44	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
45	1100 145	DDD contact activation accept	as PDP type.]
45	USS → ME	PDP context activation accept	
46	$ME \to UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
47	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL	
40		2.9.3	
48	$ME \rightarrow UICC$	FETCH	
49	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 2.9.3	[alpha identifier is displayed with strikethrough off]
50	$ME \rightarrow USS$	PDP context deactivation request	-
51	$USS \to ME$	PDP context deactivation accept	
52	ME → UICC	TERMINAL RESPONSE CLOSE	[Command performed successfully]
	. = 0	CHANNEL 2.9.1	

#### PROACTIVE COMMAND: CLOSE CHANNEL 2.9.1

## Logically:

Command details

Command number:

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

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

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

PROACTIVE COMMAND: CLOSE CHANNEL 2.10.1

Logically:

Command details

Command number:

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:

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

F	BER-TLV:	81	03	01	41	00	82	02	82	81	83	01	00	١
---	----------	----	----	----	----	----	----	----	----	----	----	----	----	---

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

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

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

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

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

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

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

#### 27.22.4.28.3.4.2 Procedure

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

Step	Direction	MESSAGE / Action	Comments
1	$USER \to ME$	Set and configure APN	[see initial conditions]
		"TestGp.rs" in the terminal	If the ME supports A.1/173 AND NOT A.1/174
		configuration if required	only one APN will be activated in step 6.
2	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: OPEN CHANNEL	
		6.6.1	
3	111L 7 0100	FETCH	
4	$UICC \to ME$	PROACTIVE COMMAND:	
		OPEN CHANNEL 6.6.1	
5	$ME \rightarrow USER$	The ME may display channel	
		opening information	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 6.6.1A	
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 6.6.1B	
7	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: CLOSE CHANNEL	
		3.1.1	
8	1112 7 0100	FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND:	
		CLOSE CHANNEL 3.1.1	
10	$ME \rightarrow UICC$		[Command performed successfully]
		CHANNEL 3.1.1	
11	$USER \to ME$	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
L			_		_			_	_	_	

TERMINAL RESPONSE: CLOSE CHANNEL 3.1.1

## Logically:

Command details

Command number:

Command type: Command qualifier: CLOSE CHANNEL

RFU

Device identities

Source device: ME Destination device: UICC

Result

General Result: Command performed successfully

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	$USER \to ME$	Set and configure APN	[see initial conditions]
		"Test12.rs" in the terminal	If the ME supports A.1/173 AND NOT A.1/174
		configuration if required	only one APN will be activated in step 7.
2	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: OPEN CHANNEL	
		6.3.1	
3	$ME \rightarrow UICC$	FETCH	
4	$UICC \to ME$	PROACTIVE COMMAND:	
		OPEN CHANNEL 6.3.1	
5	$ME \rightarrow USER$	The terminal shall display the	[IF NOT A.1/84 (No display) THEN the
		alpha identifier "Open Channel	terminal shall ignore the alpha identifier]
		for UICC?" during the	
		confirmation phase	DE NOT A 4/05 (AL
6	$USER \to ME$	The user confirms	[IF NOT A.1/85 (No keypad) THEN the
			terminal may open the channel without explicit
7	ME . E	PDN CONNECTIVITY	confirmation by the user] [The UE may request IPv4 or IPv4v6 address
/	ME → E-	REQUEST	as PDP type.]
0	USS/NB-SS	ACTIVATE DEFAULT EPS	as FDF type.]
8	$ME \rightarrow E$ -	BEARER CONTEXT REQUEST	
9	USS/NB-SS E-USS/NB-	ACTIVATE DEFAULT EPS	
9		BEARER CONTEXT ACCEPT	
10	SS → ME	TERMINAL RESPONSE: OPEN	[Command performed successfully
10	$ME \rightarrow UICC$	CHANNEL 6.1.1A	[Command performed successfully
		OR	OR
		TERMINAL RESPONSE:	OK
		OPEN CHANNEL 6.1.1B	Command performed with modifications]
11	$UICC \to ME$	PROACTIVE COMMAND	Command performed manifeduction
	0.00 /	PENDING: CLOSE CHANNEL	
		3.2.1	
12	$ME \rightarrow UICC$	FETCH	
13	$UICC \to ME$	PROACTIVE COMMAND:	
		CLOSE CHANNEL 3.2.1	
14	$ME \rightarrow E$ -	The ME shall send a PDN	If the ME supports A.1/173 this step is
	USS/NB-SS	CONNECTIVITY DISCONNECT	optional.
		REQUEST to the network	
		disconnect only the EPS bearer	
		which has been established with	
		the Open Channel command	
15	$ME \to E$ -	DEACTIVATE EPS BEARER	
	USS/NB-SS	CONTEXT REQUEST	
16	E-USS/NB-	DEACTIVATE EPS BEARER	
	$SS \rightarrow ME$	CONTEXT ACCEPT	
17	$ME \rightarrow UICC$		[Command performed successfully]
L		CHANNEL 3.2.1	
18	$USER \to ME$	Wait 30 seconds then switch off	
		the terminal	

PROACTIVE COMMAND: OPEN CHANNEL 6.3.1

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

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A

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

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B

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

PROACTIVE COMMAND: CLOSE CHANNEL 3.2.1

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

TERMINAL RESPONSE: CLOSE CHANNEL 3.2.1

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

#### 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	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
		1.1.1 PENDING	
2			
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
		1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST	
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	See initial conditions
		CHANNEL 1.1.1	See Illitial Conditions
6	$ME \rightarrow UICC$		
7	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL	
		1.1.1	
8		The ME may display channel opening information	
9	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6
40	1100 145	DDD contest activation accord	address as PDP type.]
10	USS → ME	PDP context activation accept	[Company of the state of the st
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL	[Command performed successfully]
		or	
		TERMINAL RESPONSE: OPEN CHANNEL	
		1.1.1B	
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		DATA 1.1.1	
13			
14	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA	
15	$ME \rightarrow USS$	(immediate) 1.1.1 Transfer of 8 Bytes of data to the USS through	[To retrieve ME's port number]
13	IVIE → USS	channel 1	[10 retrieve ML 3 port number]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA	[Command performed successfully]
		(immediate) 1.1.1	, , ,
17	$USS \to ME$	Transfer of 1000 Bytes of data to the ME through	
		channel 1 using the ME's port number, which was	
18	ME LUCC	retrieved in step 15 ENVELOPE: EVENT DOWNLOAD - Data	(1000 Bytes of data in the ME buffer)
10	$ME \rightarrow UICC$	available 1.1.1	(1000 Bytes of data in the ME buffer)
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE	
	0.00 / 1.1.2	DATA 1.1.1	
20	$ME \rightarrow UICC$	FETCH	
21	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 1.1.1	200 Bytes
22	$ME \rightarrow UICC$	TERMINAL RESPONSE: RECEIVE DATA 1.1.1	
23		PROACTIVE COMMAND PENDING: RECEIVE	
		DATA 1.1.2	
24	ME → UICC	FETCH	000 P. 4
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 1.1.2	200 Bytes
26		TERMINAL RESPONSE: RECEIVE DATA 1.1.2	
27	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE	
28	$ME \rightarrow UICC$	DATA 1.1.3 FETCH	
29	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 1.1.3	200 Bytes
30	ME → UICC		200 Dyioo
31	$UICC \rightarrow ME$	PROACTIVE COMMAND PENDING: RECEIVE	
"		DATA 1.1.4	
32	$ME \rightarrow UICC$	FETCH	
33	UICC → ME		200 Bytes
34	ME → UICC	TERMINAL RESPONSE: RECEIVE DATA 1.1.4	,
35	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE	
		DATA 1.1.5	
36	$ME \rightarrow UICC$	FETCH	
37	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 1.1.5	200 Bytes
38	$ME \rightarrow UICC$	TERMINAL RESPONSE: RECEIVE DATA 1.1.5	

PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

# Logically:

Command details

Command number:

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	80
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
	80	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:

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
	В6	81	C8	20	21	22		E7	В7	01	00	

Expected sequence 1.2 (RECEIVE DATA, already opened channel, E-UTRAN, APN different from default)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
		1.1.1 PENDING	
2	$ME \rightarrow UICC$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.2.1	See initial conditions
6		FETCH	
7	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.2.1	
8	ME → USER	information	
9	ME → E- USS/NB-SS	PDN CONNECTIVITY REQUEST	[The PDN CONNECTIVITY REQUEST shall contain the APN "Test12.rs"] [The UE may request IPv4 or IPv4v6 address as PDP type.]
10	$\begin{array}{c} \text{E-USS/NB-} \\ \text{SS} \rightarrow \text{ME} \end{array}$	ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST	[The E-UTRAN parameters are used]
11	$\begin{array}{c} \text{ME} \rightarrow \text{E-} \\ \text{USS/NB-SS} \end{array}$	ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT	
12	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.2.1	
13	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.2.1	
14	$ME \rightarrow UICC$	FETCH	
15	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (immediate) 1.2.1	
16	ME → E- USS/NB-SS	Transfer of 8 Bytes of data to the E-USS/NB-SS through channel 1	[To retrieve ME's port number at the Access Point defined in the Open Channel command]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (immediate) 1.2.1	[Command performed successfully]
18	E-USS/NB- SS → 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	$ME \to UICC$	ENVELOPE: EVENT DOWNLOAD - Data available 1.2.1	(1000 Bytes of data in the ME buffer)
20	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.2.1	
21			
22			200 Bytes
23	$ME \rightarrow UICC$		
24	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.2.2	
25		FETCH	200 D. 400
26 27	$ME \rightarrow UICC$	PROACTIVE COMMAND: RECEIVE DATA 1.2.2 TERMINAL RESPONSE: RECEIVE DATA 1.2.2	ZUU DYIES
28	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.2.2 DATA 1.2.3	
29	ME → UICC	FETCH	
30			200 Bytes
31	ME → UICC		<b>y</b>
32	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.2.4	
33	$ME \rightarrow UICC$	FETCH	
34	$UICC \to ME$		200 Bytes
35	$ME \rightarrow UICC$	TERMINAL RESPONSE: RECEIVE DATA 1.2.4	
36	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.2.5	
37	$ME \rightarrow UICC$	FETCH	
38		PROACTIVE COMMAND: RECEIVE DATA 1.2.5	200 Bytes
39	$ME \rightarrow UICC$	TERMINAL RESPONSE: RECEIVE DATA 1.2.5	

40	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE	
		CHANNEL 1.2.1	
41	$ME \rightarrow UICC$	FETCH	
42	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL	
		1.2.1	
43	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE CHANNEL	[Command performed successfully]
		1.2.1	

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:

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: 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	

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:

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: Sames 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	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
		1.1.1 PENDING	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST	
'	IVIL -> 0100	1.1.1	
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	See initial conditions
		CHANNEL 1.1.1	
6	$ME \rightarrow UICC$	FETCH	
7	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL	
8	$ME \rightarrow USER$	1.1.1 The ME may display channel opening information	
9	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6
	IVIL -> 033	Di comext activation request	address as PDP type.]
10	$USS \to ME$	PDP context activation accept	,
11	$ME \to UICC$	TERMINAL RESPONSE: OPEN CHANNEL	[Command performed successfully]
		1.1.1A	
		or	
		TERMINAL RESPONSE: OPEN CHANNEL	
12	$UICC \to ME$	1.1.1B  PROACTIVE COMMAND PENDING: SEND	
12		DATA 1.1.1	
13	$ME \rightarrow UICC$	FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA	
		(immediate) 1.1.1	
15	$ME \rightarrow USS$	Transfer of 8 Bytes of data to the USS through	[To retrieve ME's port number]
16	$ME \to UICC$	channel 1 TERMINAL RESPONSE: SEND DATA	[Command performed successfully]
10		(immediate) 1.1.1	[Command performed successfully]
17	$USS \to ME$	Transfer of 400 Bytes data to the ME through	
		channel 1 using the ME's port number, which was	
		retrieved in step 15	
18	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD - Data	(400 Bytes of data in the ME buffer)
19	$UICC \to ME$	available 2.1.1ENVELOPE (Data Available) PROACTIVE COMMAND PENDING: RECEIVE	
19	OICC → IVIE	DATA 2.1.1	
20	$ME \rightarrow UICC$	FETCH	
21	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.1.1	200 Bytes with alpha identifier is
			displayed with left alignment
22	$ME \rightarrow UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.1.1	
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE	
24	ME VIICO	DATA 2.1.2 FETCH	
25	$ME \rightarrow UICC$ $UICC \rightarrow ME$	PROACTIVE COMMAND: RECEIVE DATA 2.1.2	200 Bytes with alpha identifier shall be
		TO TO THE COMMINGED RECEIVE DATA 2.1.2	formatted without left alignment.
			Remark: If left alignment is the ME's
			default alignment as declared in table
			A.2/21, no alignment change will take
26	ME VIICO	TERMINIAL RESPONSE: RECEIVE DATA 2.4.4	place
20	$ME \rightarrow UICC$	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	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
		1.1.1 PENDING	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
		1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST	
_	LUCO ME	1.1.1 PROACTIVE COMMAND PENDING: OPEN	Con initial conditions
5	OICC → ME	ICHANNEL 1.1.1	See initial conditions
6	$ME \rightarrow UICC$		
7	INICC → ME	PROACTIVE COMMAND: OPEN CHANNEL	
'	OICC - IVIL	1.1.1	
8	ME  o	The ME may display channel opening information	
	USER		
9		PDP context activation request	[The UE may request IPv4 or IPv4v6
		·	address as PDP type.]
10		PDP context activation accept	·
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL	[Command performed successfully]
		1.1.1A	
		or	
		TERMINAL RESPONSE: OPEN CHANNEL	
10	LUCO ME	1.1.1B PROACTIVE COMMAND PENDING: SEND	
12	OICC → ME	DATA 1.1.1	
13	$ME \rightarrow UICC$		
14		PROACTIVE COMMAND: SEND DATA	
'-	OICC - IVIL	(immediate) 1.1.1	
15	$ME \rightarrow USS$		[To retrieve ME's port number]
		channel 1	
16	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA	[Command performed successfully]
		(immediate) 1.1.1	
17	$USS \to ME$		
		channel 1 using the ME's port number, which was	
40		retrieved in step 15	(400 Divisor of data in the NAT houston)
18	ME → UICC	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(400 Bytes of data in the ME buffer)
19	LUCC ME	PROACTIVE COMMAND PENDING: RECEIVE	
10	OIGG - IVIL	DATA 2.2.1	
20	$ME \rightarrow UICC$		
21		PROACTIVE COMMAND: RECEIVE DATA 2.2.1	200 Bytes with alpha identifier is
			displayed with center alignment
22	$ME \to UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.2.1	_
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE	
		DATA 2.2.2	
24	ME → UICC	PROACTIVE COMMAND DECENTS DATA CO.	OOO Distance with allaher it will all the
25	UICC → ME	PROACTIVE COMMAND: RECEIVE DATA 2.2.2	200 Bytes with alpha identifier shall be
			formatted without center alignment. Remark: If center alignment is the ME's
			default alignment as declared in table
			A.2/21, no alignment change will take
			place
26	$ME \to UICC$	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:

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	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
		1.1.1 PENDING	
2		FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
		1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST	
5	LUCC ME	1.1.1 PROACTIVE COMMAND PENDING: OPEN	See initial conditions
5	$UICC \to ME$	ICHANNEL 1.1.1	See initial conditions
6	ME → UICC	FETCH	
7		PROACTIVE COMMAND: OPEN CHANNEL	
'		1.1.1	
8	MF → USFR	The ME may display channel opening information	
9		PDP context activation request	[The UE may request IPv4 or IPv4v6
	/ 000		address as PDP type.]
10	$USS \to ME$	PDP context activation accept	,
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL	[Command performed successfully]
		1.1.1A	
		or	
		TERMINAL RESPONSE: OPEN CHANNEL	
		1.1.1B	
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
40	ME IIIOO	DATA 1.1.1	
13	ME → UICC	FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
15	$ME \to USS$	Transfer of 8 Bytes of data to the USS through	[To retrieve ME's port number]
13	IVIE -> USS	Ichannel 1	[10 retrieve ivic 3 port ridiriber]
16	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA	[Command performed successfully]
	, , , ,	(immediate) 1.1.1	[[]
17	$USS \to ME$	Transfer of 400 Bytes data to the ME through	
		channel 1 using the ME's port number, which was	
		retrieved in step 15	
18	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD - Data	(400 Bytes of data in the ME buffer)
4.0		available 2.1.1	
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE	
20	ME LUCC	DATA 2.3.1 FETCH	
20			200 Bytes with alpha identifier is
41	$UICC \to ME$	NOACTIVE COMMINIAND. RECEIVE DATA 2.3.1	200 Bytes with alpha identifier is displayed with right alignment
22	MF → LIICC	TERMINAL RESPONSE: RECEIVE DATA 2.3.1	anopiayod with right anginnent
23		PROACTIVE COMMAND PENDING: RECEIVE	
	3.00 / IVIL	DATA 2.3.2	
24	$ME \rightarrow UICC$	FETCH	
25	$UICC \to ME$		200 Bytes with alpha identifier shall be
			formatted without right alignment.
			Remark: If right alignment is the ME's
			default alignment as declared in table
			A.2/21, no alignment change will take
	NAE 1 1100	TERMINIAL DECRONICE DECENTEDATA COLL	place
26	$ME \rightarrow UICC$	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:

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:

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	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING						
3	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1						
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST						
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	See initial conditions					
6 7	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: OPEN CHANNEL 1.1.1						
8 9	$\begin{array}{c} ME \to USER \\ ME \to USS \end{array}$	The ME may display channel opening information PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]					
10	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context activation accept TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or	[Command performed successfully]					
		TERMINAL RESPONSE: OPEN CHANNEL						
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1						
13 14	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: SEND DATA						
15	ME → USS	(immediate) 1.1.1 Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]					
16	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]					
17	$USS \to ME$	Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was						
18	$ME \rightarrow UICC$	retrieved in step 15 ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(800 Bytes of data in the ME buffer)					
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.1						
20 21	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: RECEIVE DATA 2.4.1	200 Bytes with alpha identifier is					
22 23	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	TERMINAL RESPONSE: RECEIVE DATA 2.4.1 PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.2	displayed with large font size					
24 25	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: RECEIVE DATA 2.4.2	200 Bytes with alpha identifier is displayed with normal font size					
26 27	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	TERMINAL RESPONSE: RECEIVE DATA 2.4.1 PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.1	displayed with normal fort oize					
28 29	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: RECEIVE DATA 2.4.1	200 Bytes with alpha identifier is displayed with large font size					
30 31	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	TERMINAL RESPONSE: RECEIVE DATA 2.4.1 PROACTIVE COMMAND PENDING: RECEIVE DATA 2.4.3	and the second s					
32 33	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: RECEIVE DATA 2.4.3	200 Bytes with alpha identifier is displayed with normal font size					
34	$ME \rightarrow UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.4.1	idispiayed with hollilar folk SIZE					

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:

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:

Command type: RECEIVE DATA

1

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:

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		PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
2	ME → UICC		
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST	
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	See initial conditions
6		FETCH	
7		PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8		The ME may display channel opening information	IThe LIE was a second ID- 4 or ID- 4 of
9	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
10		PDP context activation accept	
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
		or  TERMINAL RESPONSE: OPEN CHANNEL	
		1.1.1B	
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13	ME → UICC	FETCH	
14		PROACTIVE COMMAND: SEND DATA	
4.5		(immediate) 1.1.1	FT 4: NAT! 4 1 3
15	$ME \rightarrow USS$	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	$USS \to ME$	Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was	
18	$ME \rightarrow UICC$	retrieved in step 15 ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(800 Bytes of data in the ME buffer)
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.1	
20	$ME \to UICC$		
21	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.5.1	200 Bytes with alpha identifier is displayed with small font size
22		TERMINAL RESPONSE: RECEIVE DATA 2.5.1	
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.2	
24	$ME \to UICC$	FETCH	
25	UICC → ME		200 Bytes with alpha identifier is displayed with normal font size
26	$ME \to UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.5.1	alapiayed with Hollilai folk 5126
27	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.1	
28		FETCH	
29	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.5.1	200 Bytes with alpha identifier is displayed with small font size
30	$ME \rightarrow UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.5.1	and the state of t
31	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.5.3	
32	$ME \rightarrow UICC$	FETCH	
33	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.5.3	200 Bytes with alpha identifier is displayed with normal font size
34	$ME \to UICC$	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:

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:

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	В7	01	C8	D0	04	00	0E	00	B4

## PROACTIVE COMMAND: RECEIVE DATA 2.5.3

Logically:

Command details

Command number:

Command type: RECEIVE DATA

1

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:

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	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
_		1.1.1 PENDING	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
4	ME LUCC	1.1.1  TERMINAL RESPONSE: SET UP EVENT LIST	
4	$ME \rightarrow UICC$	1.1.1	
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	See initial conditions
	OIGG / WIL	CHANNEL 1.1.1	es i i i i i i i i i i i i i i i i i i i
6	$ME \rightarrow UICC$	FETCH	
7	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL	
		1.1.1	
8		The ME may display channel opening information	
9	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6
10	LICO ME	DDD context activation accept	address as PDP type.]
10 11	USS → ME	PDP context activation accept TERMINAL RESPONSE: OPEN CHANNEL	[Command performed successfully]
''	ME → UICC	1.1.1A	[Command performed successfully]
		or	
		TERMINAL RESPONSE: OPEN CHANNEL	
		1.1.1B	
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		DATA 1.1.1	
13	ME → UICC	FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA	
15	ME LICC	(immediate) 1.1.1 Transfer of 8 Bytes of data to the USS through	[To retrieve ME's port number]
13	$ME \rightarrow USS$	Ichannel 1	[10 retrieve ME's port flumber]
16	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA	[Command performed successfully]
	7 0.00	(immediate) 1.1.1	[Command pomonned decession,]
17	$USS \to ME$	Transfer of 800 Bytes data to the ME through	
		channel 1 using the ME's port number, which was	
4.0		retrieved in step 15	(000 D ) ( ) ( ) ( ) ( ) ( )
18	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD - Data	(800 Bytes of data in the ME buffer)
19	$UICC \to ME$	available 2.1.1 PROACTIVE COMMAND PENDING: RECEIVE	
13	OICC → IVIE	DATA 2.6.1	
20	$ME \rightarrow UICC$	FETCH	
21	$UICC \rightarrow ME$	PROACTIVE COMMAND: RECEIVE DATA 2.6.1	200 Bytes with alpha identifier is
			displayed with bold on
22		TERMINAL RESPONSE: RECEIVE DATA 2.6.1	
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE	
0.4		DATA 2.6.2	
24	ME → UICC	FETCH	200 Dutas with alpha identification
25	$UICC \to ME$	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	laispiayea with bold on
27	$UICC \rightarrow ME$	PROACTIVE COMMAND PENDING: RECEIVE	
	OIGG / WIE	DATA 2.6.1	
28	$ME \rightarrow UICC$	FETCH	
29	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.6.1	200 Bytes with alpha identifier is
			displayed with bold on
30	$ME \rightarrow UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.6.1	
31	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE	
22	ME THOS	DATA 2.6.3 FETCH	
32 33	$ME \to UICC$ $UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.6.3	200 Bytes with alpha identifier is
33		TROADTIVE CONNINAND. NECETVE DATA 2.0.3	displayed with bold off
34	$ME \rightarrow UICC$	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:

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:

Command type: RECEIVE DATA

1

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:

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	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING	
3	$ME \to UICC$ $UICC \to ME$	FETCH PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST	
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	See initial conditions
6 7	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8 9	$\begin{array}{c} ME \to USER \\ ME \to USS \end{array}$	The ME may display channel opening information PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
10	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	PDP context activation accept TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or	[Command performed successfully]
		TERMINAL RESPONSE: OPEN CHANNEL	
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
13 14	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: SEND DATA	
15	ME → USS	(immediate) 1.1.1 Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
16	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (immediate) 1.1.1	[Command performed successfully]
17	$USS \to ME$	Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was	
18	$ME \rightarrow UICC$	retrieved in step 15 ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1ENVELOPE	(800 Bytes of data in the ME buffer)
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.1	
20 21	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: RECEIVE DATA 2.7.1	200 Bytes with alpha identifier is
22 23	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	TERMINAL RESPONSE: RECEIVE DATA 2.7.1 PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.2	displayed with italic on
24 25	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: RECEIVE DATA 2.7.2	200 Bytes with alpha identifier is displayed with italic off
26 27	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	TERMINAL RESPONSE: RECEIVE DATA 2.7.1 PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.1	displayed with italic on
28 29	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: RECEIVE DATA 2.7.1	200 Bytes with alpha identifier is displayed with italic on
30 31	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	TERMINAL RESPONSE: RECEIVE DATA 2.7.1 PROACTIVE COMMAND PENDING: RECEIVE DATA 2.7.3	and the first terms of the first
32 33	$\begin{array}{c} ME \to UICC \\ UICC \to ME \end{array}$	FETCH PROACTIVE COMMAND: RECEIVE DATA 2.7.3	200 Bytes with alpha identifier is
34	$ME \rightarrow UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.7.1	displayed with italic off

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:

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	В7	01	C8	D0	04	00	0E	00	B4

## PROACTIVE COMMAND: RECEIVE DATA 2.7.3

Logically:

Command details

Command number:

Command type: RECEIVE DATA

1

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:

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		PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING				
2	ME → UICC					
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1				
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST				
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	See initial conditions			
6		FETCH				
7		PROACTIVE COMMAND: OPEN CHANNEL 1.1.1				
8		The ME may display channel opening information	The LIE may request IDv4 or IDv4v6			
9	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]			
10		PDP context activation accept	,, ,			
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]			
		or  TERMINAL RESPONSE: OPEN CHANNEL				
		1.1.1B				
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1				
13	ME → UICC	FETCH				
14		PROACTIVE COMMAND: SEND DATA				
15	ME  o USS	(immediate) 1.1.1 Transfer of 8 Bytes of data to the USS through	[To retrieve ME's port number]			
16	$ME \rightarrow UICC$	channel 1 TERMINAL RESPONSE: SEND DATA	[Command performed successfully]			
17	$USS \to ME$	(immediate) 1.1.1 Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was				
		retrieved in step 15				
18	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(800 kBytes of data in the ME buffer)			
19		PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.1				
20	ME → UICC		OOO Data a with alaba idaatifaa i			
21	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.8.1	200 Bytes with alpha identifier is displayed with underline on			
22		TERMINAL RESPONSE: RECEIVE DATA 2.8.1				
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE				
24	$ME \to UICC$	DATA 2.8.2 FETCH				
25	UICC → ME		200 Bytes with alpha identifier is			
26	$ME \to UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.8.1	displayed with underline off			
27	UICC → ME	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.1				
28		FETCH				
29	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.8.1	200 Bytes with alpha identifier is displayed with underline on			
30	$ME \rightarrow UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.8.1				
31	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.8.3				
32		FETCH				
33	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.8.3	3.3 200 Bytes with alpha identifier is displayed with underline off			
34	$ME \rightarrow UICC$	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:

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	В7	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		PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1 PENDING					
2	ME → UICC						
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1					
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST					
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	See initial conditions				
6		FETCH					
7		PROACTIVE COMMAND: OPEN CHANNEL 1.1.1					
8		The ME may display channel opening information	The LIE may request IDv4 or IDv4v6				
9	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]				
10		PDP context activation accept	,, ,				
11	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]				
		or  TERMINAL RESPONSE: OPEN CHANNEL					
		1.1.1B					
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1					
13	ME → UICC	FETCH					
14		PROACTIVE COMMAND: SEND DATA					
15	$ME \rightarrow USS$	(immediate) 1.1.1 Transfer of 8 Bytes of data to the USS through	[To retrieve ME's port number]				
16	$ME \rightarrow UICC$	channel 1 TERMINAL RESPONSE: SEND DATA	[Command performed successfully]				
17	$USS \to ME$	(immediate) 1.1.1 Transfer of 800 Bytes data to the ME through channel 1 using the ME's port number, which was					
		retrieved in step 15					
18	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD - Data available 2.1.1	(800 Bytes of data in the ME buffer)				
19		PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.1					
20	ME → UICC		OOO Data a with alaba idaatifaa i				
21	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.9.1	200 Bytes with alpha identifier is displayed with strikethrough on				
22		TERMINAL RESPONSE: RECEIVE DATA 2.9.1					
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE					
24	$ME \to UICC$	DATA 2.9.2 FETCH					
25	UICC → ME		200 Bytes with alpha identifier is displayed with strikethrough off				
26	$ME \to UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.9.1	uispiayeu wiiii Silikeiiiiougii oli				
27	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.1					
28		FETCH					
29	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 2.9.1	200 Bytes with alpha identifier is displayed with strikethrough on				
30	$ME \to UICC$	TERMINAL RESPONSE: RECEIVE DATA 2.9.1	a.sp.syss mar sameanough on				
31	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.9.3					
32		FETCH					
33	$UICC \to ME$		200 Bytes with alpha identifier is displayed with strikethrough off				
34	$ME \to UICC$	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:

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	В7	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:

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	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST	
		1.1.1 PENDING	
2	/ 0.00	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST	
•	WIE 7 0100	1.1.1	
5		PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	$ME \to UICC$		
7	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL	
0	ME LICED	1.1.1 The ME may display channel opening information	
8		, , , , , , , , , , , , , , , , , , , ,	[The LIE may request IDv4 or IDv4v6
	ME → USS	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
10 11		PDP context activation accept TERMINAL RESPONSE: OPEN CHANNEL	[Command performed successfully]
''	ME → UICC	1.1.1A	[Confinant penorified successfully]
		or  TERMINAL RESPONSE: OPEN CHANNEL	
		1.1.1B	
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
40	ME 11100	DATA 1.1.1	
13 14	$ME \to UICC$ $UICC \to ME$	PROACTIVE COMMAND: SEND DATA	
14	OICC -> IVIE	(immediate) 1.1.1	
15	$ME \to USS$	Transfer of 8 Bytes of data to the USS through	[To retrieve ME's port number]
		channel 1	
16	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA	[Command performed successfully]
17	$USS \to ME$	(immediate) 1.1.1 Transfer of 400 Bytes data to the ME through	
17	USS → IVIE	channel 1 using the ME's port number, which was	
		retrieved in step 15	
18	$ME \to UICC$	ENVELOPE: EVENT DOWNLOAD - Data	(400 Bytes of data in the ME buffer)
		available 2.1.1	
19	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 2.10.1	
20	$ME \to UICC$		
21	$UICC \rightarrow ME$	PROACTIVE COMMAND: RECEIVE DATA	200 Bytes with alpha identifier is
	0.00 / III.	2.10.1	displayed with foreground and
			background colour
22		TERMINAL RESPONSE: RECEIVE DATA 2.10.1	
23	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE	
24	ME LUCC	DATA 2.10.2	
24 25	ME → UICC	FETCH PROACTIVE COMMAND: RECEIVE DATA	200 Bytes with alpha identifier is
20	$UICC \to ME$	2.10.2	displayed with ME's default foreground
			and background colour
26	$ME \to UICC$	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:

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.1.1	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
11	$ME \to USS$	Transfer of 8 Bytes of data to the USS through channel 1	
12	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND 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
	80	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	$ME \rightarrow UICC$	FETCH	
3	UICC → ME	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.2.1	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.2.1	Send 500 Bytes of data (200 + 200 + 100)
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.2.1	[Command performed successfully]
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.2.2	
13	$ME \rightarrow UICC$	FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.2.2	[200 Bytes]
15	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.2.2	[Command performed successfully]
16	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.2.3	
17	$ME \rightarrow UICC$	FETCH	
18	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (Immediate mode) 1.2.3	[100 Bytes]
19	$ME \rightarrow USS$	Transfer of 500 Bytes of data to the USS through channel 1	
20	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (Immediate mode) 1.2.3	[Command performed successfully]

# PROACTIVE COMMAND: SEND DATA 1.2.1

# Logically:

Command details

Command number: 1

Command type: SEND DATA
Command qualifier: Store mode

Device identities

Source device: 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:

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN	See initial conditions
2	$ME \rightarrow UICC$	CHANNEL 1.1.1	
3		PROACTIVE COMMAND: OPEN CHANNEL	
		1.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
9	$ME \to UICC$		
10	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packet of 200 Bytes
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
13	$ME \rightarrow UICC$	FETCH	
14			[200 Bytes]
15	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
16	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
17	$ME \rightarrow UICC$		
18		PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
19	$ME \to UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
20	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
21	$ME \rightarrow UICC$	FETCH	
22	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
23	$ME \to UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
24	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	
25	$ME \rightarrow UICC$	FETCH	
26	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
27	$ME \to USS$	Transfer of 1000 Bytes of data to the USS through channel 1	
28	$ME \to UICC$	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:

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:

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)

Ston	Direction	MESSAGE / Action	Comments
Step 1	UICC → ME	PROACTIVE COMMAND PENDING: OPEN	See initial conditions
	OIOO / WIL	CHANNEL 1.1.1	ood miliar derramente
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
		or   TERMINAL RESPONSE: OPEN CHANNEL   1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
9			
10		PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packet of 200 Bytes
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
13		FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]
15	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
16	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
17		FETCH	
18	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
19	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
20	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
21	$ME \rightarrow UICC$		
22	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
23	$ME \to UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
24		PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	
25		FETCH	
26	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
27	$ME \rightarrow USS$	Transfer of 1000 Bytes of data to the USS through channel 1	
28	$ME \to UICC$	TERMINAL RESPONSE: SEND DATA (immediate) 1.3.5	[Command performed successfully]
29	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.1	
30	$ME \rightarrow UICC$	FETCH	
31	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.1	Send 1000 Bytes of data by packet of 200 Bytes
32	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.1	[Command performed successfully]
33	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.2	
34		FETCH	
35	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.2	[200 Bytes]

36	$ME \to UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.2	[Command performed successfully]
37	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.3	
38	$ME \rightarrow UICC$	FETCH	
39	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.3	[200 Bytes]
40	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.3	[Command performed successfully]
41	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.4	
42	$ME \rightarrow UICC$	FETCH	
43	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 1.3.4	[200 Bytes]
44	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (store mode) 1.3.4	[Command performed successfully]
45	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.3.5	
46	$ME \rightarrow UICC$	FETCH	
47	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (immediate) 1.3.5	[200 Bytes]
48	$ME \to USS$	Transfer of 1000 Bytes of data to the USS through channel 1	
49	$ME \rightarrow UICC$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \to USER$	The ME may display channel opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.5.1	
9	$ME \to UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (immediate) 1.5.1	
11	$ME \rightarrow UICC$	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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \to USER$	The ME may display channel opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	,, -
7	$ME \to UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A	[Command performed successfully]
		or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 2.1.1	
9	$ME \to UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA 2.1.1	[alpha identifier shall be displayed with left alignment]
11	$ME \to UICC$	TERMINAL RESPONSE: SEND DATA (immediate) 2.1.1	[Command performed successfully]
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 2.1.2	
13	$ME \to UICC$	FETCH	
14	$UICC \to ME$	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]
15	$ME \to UICC$	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

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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN	
1		CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel	
5	ME  o USS	opening information PDP context activation request	[The UE may request IPv4 or IPv4v6 address
			as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A	
		or TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
	0100 / 1112	PENDING: SEND DATA 2.2.1	
9	$ME \to UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with center
		DATA 2.2.1	alignment]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
10	11100 145	DATA (immediate) 2.2.1 PROACTIVE COMMAND	
12	$UICC \to ME$	PENDING: SEND DATA 2.2.2	
13	ME → UICC	FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND	[Message shall be formatted without center
' '	OIOO / IVIL	DATA 2.2.2	alignment. Remark: If center alignment is the
			ME's default alignment as declared in table
			A.2/22, no alignment change will take place]
15	$ME \to UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DATA (immediate) 2.2.1	

## 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

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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN	
		CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel	
_	ME 1100	opening information	IThe LIE many required IDv4 on IDv4vC address
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
6	LICC ME	PDP context activation accept	as PDP type.]
7	$\begin{array}{c} USS \to ME \\ ME \to UICC \end{array}$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
<b>'</b>	IVIE → UICC	CHANNEL 1.1.1A	[Confinant penorified successfully]
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.3.1	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with right
		DATA 2.3.1	alignment]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
40		DATA (immediate) 2.3.1	
12	$UICC \to ME$	PROACTIVE COMMAND	
13	ME → UICC	PENDING: SEND DATA 2.3.2 FETCH	
14	UICC → ME	PROACTIVE COMMAND: SEND	[Message shall be formatted without right
14	OICC → IVIE	DATA 2.3.2	alignment. Remark: If right alignment is the
		57.17. 2.0.2	ME's default alignment as declared in table
			A.2/22, no alignment change will take place]
15	ME → UICC	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DATA (immediate) 2.3.1	

## 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

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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN	
		CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel	
l _		opening information	
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A or TERMINAL	
		RESPONSE: OPEN CHANNEL	
		1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.4.1	
9	ME → UICC	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA 2.4.1	[alpha identifier shall be displayed with large font size]
11	ME → UICC	TERMINAL RESPONSE: SEND	[Command performed successfully]
''	IVIE -> UICC	DATA (immediate) 2.4.1	[Command performed successfully]
12	$UICC \to ME$	PROACTIVE COMMAND	
'-	OIOO IVIL	PENDING: SEND DATA 2.4.2	
13	$ME \rightarrow UICC$	FETCH	
14	$UICC \rightarrow ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with normal
		DATA 2.4.2	font size]
15	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DATA (immediate) 2.4.1	
16	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.4.1	
17	$ME \rightarrow UICC$	FETCH	
18	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with large
4.0		DATA 2.4.1	font size]
19	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
00		DATA (immediate) 2.4.1	
20	$UICC \to ME$	PROACTIVE COMMAND	
21	ME LUCC	PENDING: SEND DATA 2.4.3 FETCH	
21 22	ME → UICC	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with normal
22	$UICC \to ME$	DATA 2.4.3	[alpha identifier shall be displayed with normal font size]
23	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
23	IVIE → UICC	DATA (immediate) 2.4.1	[Command performed successfully]
		DATA (IIIIIIEUIAIE) 2.4. I	

# 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
	В6	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
	В6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.4.1

#### Logically:

Command details

Command number:

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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL 1.1.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN	
		CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel	
		opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	as i Di type.j
7	ME → UICC	TERMINAL RESPONSE: OPEN	[Command performed successfully]
'	IVIL -> 0100	CHANNEL 1.1.1A or TERMINAL	[command performed adocestrally]
		RESPONSE: OPEN CHANNEL	
		1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.5.1	
9	$ME \to UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with small
		DATA 2.5.1	font size]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DATA (immediate) 2.5.1	
12	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.5.2	
13	$ME \rightarrow UICC$	FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with normal
4.5		DATA 2.5.2	font size]
15	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
40	11100 145	DATA (immediate) 2.5.1	
16	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 2.5.1	
17	$ME \to UICC$	FETCH	
18	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with small
10	OICC → IVIE	DATA 2.5.1	font size]
19	ME → UICC	TERMINAL RESPONSE: SEND	[Command performed successfully]
13	IVIE → UICC	DATA (immediate) 2.5.1	[Command performed successfully]
20	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.5.3	
21	$ME \rightarrow UICC$	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with normal
	5100 / IVIL	DATA 2.5.3	font size]
23	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DATA (immediate) 2.5.1	

# 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	80	00	01	02	03	04	05	06	07	D0	04
	00	0B	80	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	80	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)

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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN	
4	ME LIGED	CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	
5	$ME \to USS$	PDP context activation request	The UE may request IPv4 or IPv4v6 address
	WL → 000	l Di comexi donvanon request	as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \to UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A or TERMINAL	
		RESPONSE: OPEN CHANNEL	
		1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 2.6.1	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \rightarrow ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with Bold
	0100 / IVIE	DATA 2.6.1	on]
11	$ME \to UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DATA (immediate) 2.6.1	
12	$UICC \to ME$	PROACTIVE COMMAND	
12	ME . LUCC	PENDING: SEND DATA 2.6.2 FETCH	
13 14	$ME \rightarrow UICC$ $UICC \rightarrow ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with bold
'-	OICC → IVIE	DATA 2.6.2	off]
15	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DATA (immediate) 2.6.1	
16	$UICC \to ME$	PROACTIVE COMMAND	
4.7		PENDING: SEND DATA 2.6.1	
17	ME → UICC	FETCH	
18	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA 2.6.1	[alpha identifier shall be displayed with bold on]
19	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
10	WIL -> 0100	DATA (immediate) 2.6.1	[command performed adocederany]
20	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.6.3	
21	$ME \to UICC$	FETCH	
22	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with bold
23	ME LUCC	DATA 2.6.3 TERMINAL RESPONSE: SEND	off] [Command performed successfully]
23	$ME \rightarrow UICC$	DATA (immediate) 2.6.1	[Command pendimed successfully]
		Dittit (miniculate) 2.0.1	

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
	В6	80	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
	В6	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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN	
		CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel	
_		opening information	ITh a LIE was as we say ID A an ID A Continue
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	as PDP type.]
7	ME → UICC	TERMINAL RESPONSE: OPEN	[Command performed successfully]
'	IVIE → UICC	CHANNEL 1.1.1A or TERMINAL	[Command performed successiony]
		RESPONSE: OPEN CHANNEL	
		1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.7.1	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with Italic
		DATA 2.7.1	on]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DATA (immediate) 2.7.1	
12	$UICC \to ME$	PROACTIVE COMMAND	
13	ME → UICC	PENDING: SEND DATA 2.7.2 FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with italic
'4	OICC → IVIE	DATA 2.7.2	off]
15	$ME \to UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
.	, old	DATA (immediate) 2.7.1	[Command pomential descending]
16	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.7.1	
17	$ME \rightarrow UICC$	FETCH	
18	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with italic
		DATA 2.7.1	on]
19	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
20	LUCC ME	DATA (immediate) 2.7.1	
20	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 2.7.3	
21	$ME \rightarrow UICC$	FETCH	
22	$UICC \rightarrow ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with italic
		DATA 2.7.3	off]
23	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
	, 5.50	DATA (immediate) 2.7.1	

# 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
	В6	08	00	01	02	03	04	05	06	07		

TERMINAL RESPONSE: SEND DATA 2.7.1

## Logically:

Command details

Command number:

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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN	
		CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel	
5	ME  o USS	opening information PDP context activation request	The UE may request IPv4 or IPv4v6 address
3	IVIE → USS	FDF Context activation request	as PDP type.]
6	$USS \to ME$	PDP context activation accept	do i Di type.]
7	ME → UICC	TERMINAL RESPONSE: OPEN	[Command performed successfully]
	<u>_</u>	CHANNEL 1.1.1A or TERMINAL	[, ]
		RESPONSE: OPEN CHANNEL	
		1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.8.1	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with
11	ME LUCC	DATA 2.8.1 TERMINAL RESPONSE: SEND	underline on] [Command performed successfully]
11	$ME \rightarrow UICC$	DATA (immediate) 2.8.1	[Confinant pentitined successfully]
12	$UICC \to ME$	PROACTIVE COMMAND	
	OIGG / IVIE	PENDING: SEND DATA 2.8.2	
13	$ME \to UICC$	FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with
		DATA 2.8.2	underline off]
15	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
40		DATA (immediate) 2.8.1	
16	$UICC \to ME$	PROACTIVE COMMAND	
17	$ME \rightarrow UICC$	PENDING: SEND DATA 2.8.1 FETCH	
18	$UICC \rightarrow ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with
10	OICC → IVIE	DATA 2.8.1	underline on]
19	$ME \to UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
	/ 0.00	DATA (immediate) 2.8.1	,,,
20	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.8.3	
21	$ME \to UICC$	FETCH	
22	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with
		DATA 2.8.3	underline off]
23	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		DATA (immediate) 2.8.1	

# 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
	В6	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
	В6	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)

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:

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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL 1.1.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN	
		CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel	
		opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address
			as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A or TERMINAL	
		RESPONSE: OPEN CHANNEL	
		1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SEND DATA 2.9.1	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with
		DATA 2.9.1	strikethrough on]
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
4.0		DATA (immediate) 2.9.1	
12	$UICC \to ME$	PROACTIVE COMMAND	
40		PENDING: SEND DATA 2.9.2	
13	ME → UICC	FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with
15	ME	DATA 2.9.2 TERMINAL RESPONSE: SEND	strikethrough off] [Command performed successfully]
15	$ME \rightarrow UICC$	DATA (immediate) 2.9.1	[Command performed successfully]
16	$UICC \to ME$	PROACTIVE COMMAND	
10	OICC → IVIE	PENDING: SEND DATA 2.9.1	
17	$ME \rightarrow UICC$	FETCH	
18	UICC → ME	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with
10	OICC → IVIE	DATA 2.9.1	strikethrough on]
19	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
10	IVIL -> 0100	DATA (immediate) 2.9.1	[command performed adocestrally]
20	$UICC \to ME$	PROACTIVE COMMAND	
	0100 / 1112	PENDING: SEND DATA 2.9.3	
21	$ME \rightarrow UICC$	FETCH	
22	UICC → ME	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with
	5.55 / IVIL	DATA 2.9.3	strikethrough off]
23	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		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
	В6	80	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	$UICC \to ME$	PROACTIVE COMMAND	See initial conditions
		PENDING: OPEN CHANNEL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	
5	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	[Command performed successfully]
		CHANNEL 1.1.1A or TERMINAL	
		RESPONSE: OPEN CHANNEL	
		1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND	
9	ME LUCC	PENDING: SEND DATA 2.10.1	
10	ME → UICC	PROACTIVE COMMAND: SEND	
10	$UICC \to ME$	DATA 2.10.1	[alpha identifier shall be displayed with foreground and background colour according
		DATA 2.10.1	to the text attribute configuration]
11	ME → UICC	TERMINAL RESPONSE: SEND	[Command performed successfully]
''	IVIL -> OICC	DATA (immediate) 2.10.1	[Command performed successfully]
12	UICC → ME	PROACTIVE COMMAND	
	0100 / 1112	PENDING: SEND DATA 2.10.2	
13	$ME \rightarrow UICC$	FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: SEND	[alpha identifier shall be displayed with ME's
		DATA 2.10.2	default foreground and background colour]
15	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND	[Command performed successfully]
		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
	В6	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

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

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

Network access name: TestGp.rs
User login: UserLog
User password: UserPwd

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

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

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

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

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 3.1.1	See initial conditions
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 3.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	[The user shall confirm the channel opening if required]
5	ME → E- USS/NB-SS	No PDN connectivity request PDN CONNECTIVITY REQUEST is sent if the ME supports A.1/173 AND NOT A.1/174.	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 3.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 3.1.1B	[Command performed successfully]  If the ME supports A.1/173 only OPEN CHANNEL 3.1.1A shall be sent.
7	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 3.1.1	
8	$ME \rightarrow UICC$	FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (immediate) 3.1.1	
10	$\begin{array}{c} \text{ME} \rightarrow \text{E-} \\ \text{USS/NB-SS} \end{array}$	Transfer of 8 Bytes of data to the USS through channel 1	
11	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (immediate) 3.1.1	[Command performed successfully]
12	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.1.1	
13	$ME \to UICC$	FETCH	
14	$UICC \to ME$	PROACTIVE COMMAND: CLOSE CHANNEL 3.1.1	
15	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE 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:

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

BER-TL	V: D0	09	81	03	01	41	00	82	02	81	21	
--------	-------	----	----	----	----	----	----	----	----	----	----	--

TERMINAL RESPONSE: CLOSE CHANNEL 3.1.1

Logically:

Command details

Command number:

Command type: CLOSE CHANNEL

Command qualifier: RFU

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

IDED TI 1/-	01	0.3	I 01	1 11	00	92	02	92	1 01	0.2	01	00
BER-TLV:		เบอ		141	I UU	1 02	UZ	02		1 00		I UU

# Expected sequence 3.2 (SEND DATA, E-UTRAN, APN different from default APN, Store mode)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND PENDING:	If the ME supports A.1/173 AND NOT
		OPEN CHANNEL 3.2.1	A.1/174 only one APN will be
			activated in step 5.
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 3.2.1	
4	ME → USER	The ME should not display channel opening	
	WIE -> COLIK	information	
5	$ME \rightarrow E$ -	PDN CONNECTIVITY REQUEST	[The PDN CONNECTIVITY
	USS/NB-SS		REQUEST shall contain the APN
			"Test12.rs"]
			[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	E-USS/NB-SS	ACTIVATE DEFAULT EPS BEARER	[The E-UTRAN parameters are used]
	→ ME	CONTEXT REQUEST	
7	$ME \rightarrow E$ -	ACTIVATE DEFAULT EPS BEARER	
	USS/NB-SS	CONTEXT ACCEPT	
8	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL	[Command performed successfully]
9	$UICC \to ME$	3.2.1  PROACTIVE COMMAND PENDING: SEND	
		DATA 3.2.1	
10	$ME \rightarrow UICC$	FETCH	
11	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA	Send 500 Bytes of data (200 + 200 +
		(store mode) 3.2.1	100)
12	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA	[Command performed successfully]
'2	IVIE → UICC	(store mode) 3.2.1	[Command performed successfully]
13	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
		DATA 3.2.2	
14	ME → UICC	FETCH	tooo B
15	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (store mode) 3.2.2	[200 Bytes]
16	ME → UICC	TERMINAL RESPONSE: SEND DATA	[Command performed successfully]
'	WIL 70100	(store mode) 3.2.2	[command portormed edecederally]
17	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND	
40		DATA 3.2.3	
18	ME → UICC	FETCH	[400 D. 40 a]
19	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (Immediate mode) 3.2.3	[100 Bytes]
20	$ME \rightarrow E$ -	Transfer of 500 Bytes of data to the USS	
	USS/NB-SS	through channel 1	
21	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA	[Command performed successfully]
		(Immediate mode) 3.2.3	
22	$UICC \to ME$	PROACTIVE COMMAND PENDING: CLOSE CHANNEL 3.2.1	
23	ME → UICC	FETCH	
24	UICC → ME	PROACTIVE COMMAND: CLOSE	
		CHANNEL 3.2.1	
25	$ME \rightarrow UICC$	TERMINAL RESPONSE CLOSE	[Command performed successfully]
		CHANNEL 3.2.1	

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

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

Network access name: TestGp.rs User login: UserLog User password: UserPwd

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

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

#### 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: GET STATUS 1.1.1	
4	ME → UICC	TERMINAL RESPONSE GET STATUS 1.1.1 A Or TERMINAL RESPONSE: GET STATUS 1.1.1B Or TERMINAL RESPONSE: GET 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

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:

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:

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL	See initial conditions
		1.1.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
4	$ME \to USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
5	$USS \to ME$	PDP context activation accept	
6	$ME \to UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
7	$UICC \to ME$	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 1.2.1	
8	$ME \rightarrow UICC$	FETCH	
9	$UICC \to ME$	PROACTIVE COMMAND: GET STATUS 1.2.1	
10	ME → UICC	TERMINAL RESPONSE GET STATUS 1.2.1 A Or TERMINAL RESPONSE: GET 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

**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	80
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:

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	0.00 /	EVENT LIST 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Command performed successfully]
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	See initial conditions
6	$ME \rightarrow UICC$		
7	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.1.1	
8	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
9		PDP context activation accept	
10		TERMINAL RESPONSE: OPEN CHANNEL 1.1.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.1.1B	[Command performed successfully]
11	$USS \to ME$	DROP LINK	
12	$ME \rightarrow UICC$	ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1	[Link dropped]
13	$UICC \to ME$	PROACTIVE COMMAND PENDING: GET STATUS 1.3.1	
14	$ME \rightarrow UICC$	FETCH	
15		PROACTIVE COMMAND: GET STATUS 1.3.1	
16	ME → UICC	TERMINAL RESPONSE: GET STATUS 1.3.1A Or TERMINAL RESPONSE: GET STATUS 1.3.1B Or TERMINAL RESPONSE: GET STATUS 1.3.1C Or TERMINAL RESPONSE: GET STATUS 1.3.1D Or 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

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:

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:

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

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	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.3.1	See initial conditions
2	IVIL / CICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 6.3.1	
4	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]
5	$USER \to ME$	The user confirms	[IF NOT A.1/85 (No keypad) THEN the terminal may open the channel without explicit confirmation by the user]
6	$\begin{array}{c} \text{ME} \rightarrow \text{E-} \\ \text{USS/NB-SS} \end{array}$	PDN CONNECTIVITY REQUEST	[The PDN CONNECTIVITY REQUEST shall contain the APN "Test12.rs"]
7	E-USS/NB- SS $\rightarrow$ ME	ACTIVATE EPS BEARER CONTEXT REQUEST	[The E-UTRAN parameters are used]
8	$\begin{array}{c} \text{ME} \rightarrow \text{E-} \\ \text{USS/NB-SS} \end{array}$	ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT	
9	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A OR TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B	[Command performed successfully  OR  Command performed with modifications]
10	$UICC \to ME$	PROACTIVE COMMAND PENDING: GET CHANNEL STATUS 1.1.1	
11	$ME \rightarrow UICC$		
12	$UICC \to ME$	PROACTIVE COMMAND: GET STATUS 1.1.1	
13	ME → UICC	TERMINAL RESPONSE GET STATUS 1.4.1 A Or TERMINAL RESPONSE: GET 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 6.1.1A

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

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B

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

PROACTIVE COMMAND: 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

BER-TLV:	81	03	he Terminal Response shall contain as many channel status TLVs as nannels are supported by the ME. The channel status TLV coding of the pened channel shall state "Link established or PDP context activated".													
	Note															
	Note:	The	Termina	al Resp	onse s	hall con	itain as	many o	channe	l status	TLVs a	ıs				
		chan	nels ar	e suppo	orted by	the MI	E. The	channe	l status	TLV co	oding o	f the				
		open	opened channel shall state "Link established or PDP context activated".													
		Not r	Not more than one opened channel shall be indicated. Each other channel													
		statu	is TLV (	coding	shall in	dicate tl	he corr	espond	ing cha	nnel id	entifier	and				
		shall	state "	Link is i	not esta	ablished	d or PD	P conte	ext not a	activate	d". As a	an				
		exan	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 cor	respon	ding ch	annel s	tatus d	ata obje	ects co	ding wo	uld be	: 'B8				
		02.8	1 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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP	
		EVENT LIST 1.1.1	
2	ME → UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[Command performed successfully]
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 6.3.1	See initial conditions
6	$ME \rightarrow UICC$	FETCH	
7	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 6.3.1	
8	ME → USER	"Open Channel for UICC?" during the confirmation phase	[IF NOT A.1/84 (No display) THEN the terminal shall ignore the alpha identifier]
9		The user confirms	[IF NOT A.1/85 (No keypad) THEN the terminal may open the channel without explicit confirmation by the user]
10	ME → E- USS/NB-SS	PDN CONNECTIVITY REQUEST	[The PDN CONNECTIVITY REQUEST shall contain the APN "Test12.rs"]
11	E-USS/NB-SS → ME	ACTIVATE EPS BEARER CONTEXT REQUEST	[The E-UTRAN parameters are used]
12	$\begin{array}{c} \text{ME} \rightarrow \text{E-} \\ \text{USS/NB-SS} \end{array}$	ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT	
13	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A	[Command performed successfully
		OR	OR
		TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B	Command performed with modifications]
14	E-USS/NB-SS → ME	DEACTIVATE EPS BEARER CONTEXT REQUEST	[Cause: #38 network failure]
15	$\begin{array}{c} \text{ME} \rightarrow \text{E-} \\ \text{USS/NB-SS} \end{array}$	DEACTIVATE EPS BEARER CONTEXT ACCEPT	
16	$ME \rightarrow UICC$	ENVELOPE EVENT DOWNLOAD: CHANNEL STATUS 1.3.1	[Link dropped]
17	$UICC \to ME$	PROACTIVE COMMAND PENDING: GET STATUS 1.3.1	
18		FETCH	
19		PROACTIVE COMMAND: GET STATUS 1.3.1	
20	$ME \rightarrow UICC$	Or	[Command performed successfully]
		TERMINAL RESPONSE: GET STATUS 1.3.1B Or	
		TERMINAL RESPONSE: GET STATUS 1.3.1C Or	
		TERMINAL RESPONSE: GET STATUS 1.3.1D Or	
		TERMINAL RESPONSE: GET STATUS 1.3.1E	

PROACTIVE COMMAND: OPEN CHANNEL 6.3.1

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

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1A

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

TERMINAL RESPONSE: OPEN CHANNEL 6.1.1B

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

#### PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number:

Command type: SET UP EVENT LIST

Command qualifier: '0

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: '0

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:

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:

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:

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	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', '91 XX', '62 XX' or '63 XX'.

To verify that the ME with an SMS-PP download feature implementation prior to Rel-11 returns the RP-ERROR message back to the system Simulator, if the UICC responds with '62 XX' or '63 XX' (while the ME with the Rel-11 or later implemention of this feature returns an RP-ACK in this case).

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/PS, UTRAN/GERAN)

In case A.1/156 is supported 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 domain is used to send and receive short messages
- ME supports UTRAN or GERAN

#### CS related procedure:

Step	Direction	MESSAGE / Action	Comments
1	$USER \to ME$	The ME is switched on	ME will perform Profle Download and USIM
			initialisation
2	$ME \rightarrow NWS$	ME performs CS/PS or CS	
		registration.	
3		CONTINUE WITH STEP 4 Generic	
		Test Procedure 1 (SMS-PP Data	
		Download) in clause 27.22.5.3.4.2	

In case A.1/156 is not supported but A.1/158 is supported perform the "PS related procedure" 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)
- PS domain is used to send and receive short messages
- ME supports UTRAN or GERAN

# PS related procedure:

Step	Direction	MESSAGE / Action	Comments
1	$USER \to ME$	The ME is switched on	ME will perform Profle Download and USIM
			initialisation
2	$ME \rightarrow NWS$	ME performs CS/PS or PS	
		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>CRMID</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 exeception:

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	$USS \to ME$	CELL BROADCAST 1.1	Message identifier '10 01'
2	$ME \rightarrow UICC$	ENVELOPE (CELL	
		BROADCAST DOWNLOAD) 1.1	
3	$UICC \to ME$	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	80	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	80	04	02	81	40	20	10	08	04	02
	81	40	20	10	80	04	02	81	40	20	10	08
	04	02	81	40	20	10	80	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"

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	80	04	02	81	40	20	10	80	04
	02	81	40	20	10	80	04	02	81	40	20	10
	80	04	02	81	40	20	10	80	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	$USS \to ME$	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			[only if message has not been displayed in
		procedure to initiate the display of	step 2a]
		the received CB message	
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	80	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	$USS \to ME$	CELL BROADCAST Message	Message identifier '10 01'
		1.7	
2	$ME \rightarrow UICC$	ENVELOPE (CELL	
		BROADCAST DOWNLOAD) 1.7	
3	$UICC \to ME$	PROACTIVE COMMAND	SW1/SW2 '91 0B'
		PENDING: MORE TIME 1.2	
4	$ME \rightarrow UICC$	FETCH 1.2	
5	$UICC \to ME$	PROACTIVE COMMAND:MORE	
		TIME 1.2	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: MORE	
		TIME 1.2	
7	$UICC \to ME$	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	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
DEIX IEV.	01	00	01	02	00	02	02	02	01	00	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', '91 XX', '62 XX' or '63 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 with an SMS-PP download feature implementation prior to Rel-11 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' (while the ME with the Rel-11 or later implemention of this feature return an RP-ACK in this case). 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	$USER \to ME$	The ME is switched on	ME will perform Profle Download, USIM and
			ISIM initialisation
2	$ME \rightarrow NWS$	ME activates the required bearer, discoveres P-CSCF and registers with the values from the ISIM to IMS services	For E-UTRAN: The EPS bearer context activation according to the procedures defined in TS 34.229-1 [36],
		IIVIO SELVICES	Annex C.2 and C.18 is performed  For UTRAN: For SMS-over-IP a PDP context activation according to the procedures defined in TS 34.229-1 [36], Annex C.2 and C.17 is performed.
3		CONTINUE WITH STEP 4 Generic Test Procedure 1 (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	See Note 1.
	TWO / IVIL	3.1.1	See Hele H.
5	$ME \rightarrow USER$	The ME shall not display the	
	L 7 00LIK	message or alert the user of a	
		short message waiting.	
6	$ME \rightarrow UICC$	ENVELOPE: SMS-PP	
	, 0.00	DOWNLOAD 3.1.1	
7	$UICC \to ME$	SMS-PP Data Download UICC	[SW1 / SW2 of '90 00']
		Acknowledgement 3.1.1	
8	$ME \rightarrow NWS$	SMS-PP Data Download UICC	See Note 2.
		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.	
9	$NWS \to ME$	SMS-PP Data Download Message	See Note 1.
		3.1.2	
10	$ME \rightarrow USER$	The ME shall not display the	
		message or alert the user of a	
44		short message waiting	
11	$ME \rightarrow UICC$	ENVELOPE: SMS-PP	
40		DOWNLOAD 3.1.2 PROACTIVE COMMAND	[OVA/4 / OVA/0 - 5 IO4 ODI]
12	$UICC \to ME$	PENDING: MORE TIME 3.1.1	[SW1 / SW2 of '91 0B']
13	ME NIME	RP-ACK	See Note 2.
14	$\begin{array}{c} ME \to NWS \\ ME \to UICC \end{array}$	FETCH	See Note 2.
15	$UICC \to ME$	PROACTIVE COMMAND: MORE	
13	OICC → IVIE	TIME 3.1.1	
16	ME → UICC	TERMINAL RESPONSE: MORE	
10	IVIE → UICC	TIME 3.1.1	
17	$UICC \to ME$	PROACTIVE UICC SESSION	
''	OICC - IVIL	ENDED	
18	NWS → ME	SMS-PP Data Download Message	See Note 1.
10	TWO / IVIL	3.1.3	occinete i.
19	ME	The ME shall not display the	
		message or alert the user of a	
		short message waiting	
20	$ME \rightarrow UICC$	ENVELOPE: SMS-PP	
		DOWNLOAD 3.1.3	
21	$UICC \to ME$	SW1 / SW2 of '90 00'	
22	$ME \rightarrow NWS$	RP-ACK	See Note 2.
23	$NWS \rightarrow ME$	SMS-PP Data Download Message	See Note 1.
		3.1.1	
24	$ME \rightarrow USER$	The ME shall not display the	
		message or alert the user of a	
		short message waiting.	
25	$ME \rightarrow UICC$	ENVELOPE: SMS-PP	
		DOWNLOAD 3.1.1	
26	$UICC \to ME$	SMS-PP Data Download UICC	[SW1 / SW2 of '62 xx' or '63 xx']
		Acknowledgement 3.1.4	

27	$ME \rightarrow NWS$	IF A.1/154_THEN	See Note 2.
	IVIL -> IVVV	SMS-PP Data Download UICC	See Note 3.
		Acknowledgement 3.1.4 in the TP-	occ Note 5.
		User-Data element of the RP-ACK	
		message. The values of protocol	
		identifier and data coding scheme	
		lin RP-ACK shall be as in the	
		original message. ELSE	
		IF (NOT A.1/154) THENSMS-PP	
		Data Download UICC	
		Acknowledgement 3.1.4 in the TP-	
		User-Data element of the RP-	
		ERROR message. The values of	
		protocol identifier and data coding	
		scheme in RP-ERROR shall be as	
		in the original message.	
28	NWS → ME	SMS-PP Data Download Message	See Note 1
20	INVVS - IVIL	3.1.5	See Note 1.
29	ME	The ME shall not display the	
20	IVIL	message or alert the user of a	
		short message waiting	
30	ME → UICC	ENVELOPE: SMS-PP	
	L 7 0.00	DOWNLOAD 3.1.5	
31	$UICC \to ME$	SW1 / SW2 of '90 00'	
32	$ME \rightarrow NWS$	RP-ACK	See Note 2.
33		The ME is switched off	
Note 1:			sage is contained in the message body of the
	SIP MESSAC		
Note 2:	In case of IM	S the RP-ACK message is contained	in the message body of the SIP MESSAGE.
		-	
Note 3:	In case of IM	S the RP-ERROR message is conta	ined in the message body of the SIP
	MESSAGE.		-

# SMS-PP (Data Download) Message 3.1.1

# Logically:

<b>SMS</b>	TPDU
OIM	1100

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	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-RPTP-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

Codina	11	61	7/	61	20	/11	63	6B
Couling	44	01	14	01	_ ZU	41	03	OD

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-RPTP-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:

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
D=::::::::::::::::::::::::::::::::::::	U .	00	<b>.</b>		00	U-			<b>.</b>		<b>.</b>	

#### 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	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

Codina	44	61	74	61	20	45	72	72	65	72	İ
County		01	17	01	20	70	1 4	1 4	05	1 4	1

#### 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-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', '91 XX', '62 XX' or '63 XX'.

To verify that the ME with an SMS-PP download feature implementation prior to Rel-11 returns the RP-ERROR message back to the system Simulator, if the UICC responds with '62 XX' or '63 XX' (while the ME with the Rel-11 or later implementation of this feature return an RP-ACK in this case).

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/NB-SS.

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/NB-SS
- SMS over SGs (DOWNLINK NAS TRANSPORT and UPLINK NAS TRANSPORT messages) is used to send and receive short messages
- ME supports eFDD or eTDD or NB-IoT
- ME supports MO SMS-over-SGs.

## SMS over SGs related procedure:

Step	Direction	MESSAGE / Action	Comments
1	$USER \to ME$	The ME is switched on	ME will perform Profle Download and USIM
			initialisation
2	$ME \rightarrow NWS$		UE is afterwards in state Registered, Idle
		registration.	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	

# 27.22.5.4.5 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	$User \to ME$	Set up a call to	
		"+01234567890123456789"	
2	$ME \to UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for 3GPP parameters]
		1.1.1A	[Option B shall apply for PCS1900
		Or	parameters]
		ENVELOPE CALL CONTROL	
		1.1.1B	
3	$UICC \to ME$	90 00	
4	$ME \to USS$	The ME sets up the call without	[Set up call to "+01234567890123456789"
		modification	

#### 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 IDRNC-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 $\rightarrow$ ME	Set up a call to	
		"+01234567890123456789"	
2	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		1.2.1 A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.2.1B	
3	$UICC \to ME$	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no
			modification"]
4	$ME \rightarrow USS$	The ME sets up the call without	[Set up call to "+01234567890123456789"]
		modification	

#### **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	$UICC \to ME$	PROACTIVE COMMAND: SET	[This test applies to MEs asking for user
		UP CALL 1.3.1 PENDING	confirmation before sending the
			ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET	[Set up call to "+012340123456"]
		UP CALL 1.3.1	
4	$ME \rightarrow USER$	ME displays "+012340123456"	
		during user confirmation phase.	
5	$USER \to ME$	The user confirms the call set up	[user confirmation]
6	$ME \rightarrow UICC$		Option A shall apply for GERAN/UTRAN
		1.3.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
_		1.3.1B	
7	$UICC \to ME$	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no
		T. 145	modification"]
8	$ME \rightarrow USS$	The ME sets up the call without	[Set up call to "+012340123456"]
		modification	[
9	$ME \rightarrow UICC$		[command performed successfully]
		CALL 1.3.1	

# 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	$UICC \to ME$	PROACTIVE COMMAND: SET	[This test applies to MEs asking for user
		UP CALL 1.3.1 PENDING	confirmation after sending the
			ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET	[Set up call to "+012340123456"]
		UP CALL 1.3.1	
4	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		1.3.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.3.1B	
5	$UICC \to ME$	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed, no
			modification"]
6	$ME \rightarrow USER$	ME displays "+012340123456"	
		during user confirmation phase.	
7		The user confirms the call set up	[user confirmation]
8	$ME \to USS$	The ME sets up the call without	[Set up call to "+012340123456"]
		modification	
9	$ME \rightarrow UICC$		[command performed successfully]
		CALL 1.3.1	

## 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:

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:	0.4	02	04	10	00	0.0	02	0.0	0.4	0.2	01	00
DEK-ILV.	01	03	UI	10	00	02	02	02	01	೦೦	UI	00

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

Step	Direction	Message / Action	Comments
1	$User \to ME$	Set up a call to	
		"+01234567890123456789"	
2	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		1.4.1 A	parameters]
		or	Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.4.1B	
3	$UICC \to ME$	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
4	$ME \rightarrow USS$	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	$UICC \to ME$	PROACTIVE COMMAND: SET	[This test applies to MEs asking for user
		UP CALL 1.5.1 PENDING	confirmation before sending the
			ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET	[Set up call to "+012340123456"
		UP CALL 1.5.1	
4	$ME \to USER$	ME displays "+012340123456"	
		during user confirmation phase.	
5	$USER \to ME$	The user confirms the call set up	[user confirmation]
6	$ME \to UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		1.5.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.5.1B	
7	$UICC \to ME$	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"]
8	$ME \to UICC$	TERMINAL RESPONSE: SET UP	[Permanent Problem - Interaction with
		CALL 1.5.1	Call Control by USIM]
9	$ME \to USS$	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	$UICC \to ME$	PROACTIVE COMMAND: SET	[This test applies to MEs asking for user
		UP CALL 1.5.1 PENDING	confirmation after sending the
			ENVELOPE CALL CONTROL command]
2	ME→UICC	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET	[Set up call to "+012340123456"
		UP CALL 1.5.1	
4	$ME \to UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		1.5.1A	parameters]
		or	Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.5.1B	
5	$UICC \to ME$	CALL CONTROL RESULT 1.5.1	[Call control result: "Not Allowed"]
			[No user confirmation phase because
			Call Control has disallowed the request]
6	$ME \to UICC$	TERMINAL RESPONSE: SET UP	[Permanent Problem - Interaction with
		CALL 1.5.1	Call Control by USIM]
7	$ME \to USS$	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	$User \rightarrow ME$	Set up a call to	
		"+01234567890123456789"	
2	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		1.6.1 A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.6.1B	
3	$UICC \to ME$	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with
			modifications", ]
4	$ME \rightarrow USS$	The ME sets up the call to	
		"+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 8	04 91	1 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	$UICC \to ME$	PROACTIVE COMMAND: SET	[This test applies to MEs asking for user
		UP CALL 1.7.1 PENDING	confirmation before sending the
			ENVELOPE CALL CONTROL command]
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP CALL 1.7.1	[Set up call to "+012340123456"]
4	$ME \to USER$	ME displays "+012340123456" during user confirmation phase.	
5	$USER \to ME$	The user confirms the call set up	[user confirmation]
6	$ME \to UICC$	ENVELOPE CALL CONTROL 1.7.1A	[Option A shall apply for GERAN/UTRAN parameters]
		or ENVELOPE CALL CONTROL	[Option B shall apply for PCS1900 parameters]
		1.7.1B	
7	$UICC \to ME$	CALL CONTROL RESULT 1.7.1	[Call control result: "Allowed with modifications"]
8	$ME \to USS$	The ME sets up the call to "+011111111111"	
9	$ME \rightarrow UICC$	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	$UICC \to ME$	PROACTIVE COMMAND: SET	[This test applies to MEs asking for user
		UP CALL 1.7.1 PENDING	confirmation after sending the
			ENVELOPE CALL CONTROL command]
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET	[Set up call to "+012340123456"]
		UP CALL 1.7.1	
4	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		******	parameters]
		or	Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.7.1B	
5	$UICC \to ME$	CALL CONTROL RESULT 1.7.1	[Call control result: "Allowed with modifications"]
6	$ME \rightarrow USER$	ME displays "+012340123456"	-
		during user confirmation phase.	
7	$USER \to ME$	The user confirms the call set up	[user confirmation]
8	$ME \to USS$	The ME sets up the call to	[call is set up to modified address]
		"+01111111111"	_
9	$ME \to UICC$	TERMINAL RESPONSE: SET UP	[command performed successfully]
		CALL 1.7.1	

#### PROACTIVE COMMAND: SET UP CALL 1.7.1

# Logically:

Command details

Command number:

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 "01111111111"

Coding:

BER-TLV:	02	09	86	07	91	10	11	11	11	11	11
D		00	00	0.	<b>.</b>						

#### TERMINAL RESPONSE: SET UP CALL 1.7.1

Logically:

Command details

Command number:

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:

IDER-ILV.   01   U3   U1   IU   UU   02   U2   0	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	$User \to ME$	Set up a call to	
		"+01234567890123456789"	
2	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL 1.8.1A	[Option A shall apply for GERAN/UTRAN
		or	parameters]
		ENVELOPE CALL CONTROL 1.8.1B	
			parameters
3	$UICC \to ME$	CALL CONTROL RESULT 1.8.1	[Call control result: "Allowed with
			modifications"]
4	$ME \to USS$	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	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 $\rightarrow$ ME	Set up a call to	
		"+01234567890123456789"	
2	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL 1.9.1A	[Option A shall apply for GERAN/UTRAN
			parameters]
		ENVELOPE CALL CONTROL 1.9.1B	[Option B shall apply for PCS1900
			parameters]
3	$UICC \to ME$	CALL CONTROL RESULT 1.9.1	[Call control result: "Allowed with
			modifications"]
4	$ME \rightarrow USS$	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	$User \to ME$	Set up a call to "112"	
2	$ME \to UICC$	The ME does not send any	
		ENVELOPE CALL CONTROL	
3	$ME \to USS$	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	$User \to ME$	Set up a call to	
		"+01234567890123456789"	
2	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		1.1.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.1.1B	
3	$UICC \to ME$	90 00	
4	$ME \to USS$	The ME sets up the call without	[Set up call to "+01234567890123456789"]
		modification	
5	$USER \to ME$	End Call.	
6	$USER \to ME$	Recall the last dialled number	
7	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		1.1.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.1.1B	
8	$UICC \to ME$	90 00	
9	$ME \to USS$	The ME sets up the call without	[Set up call to "+01234567890123456789"]
		modification	
10	$USER \to ME$	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	$User \to ME$	Set up a call to "+01234567890123456789"	
2	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL 1.2.1A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	$UICC \to ME$	CALL CONTROL RESULT 1.2.1	[Call control result: "Allowed, no modification"]
4	$ME \to USS$	The ME sets up the call without modification	[Set up call to "+01234567890123456789"]
5	$User \to ME$	End the call then call the last dialled number	
6	ME → UICC	ENVELOPE CALL CONTROL 1.2.1A or ENVELOPE CALL CONTROL 1.2.1B	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
7	$UICC \to ME$	CALL CONTROL RESULT 1.2.1	
8	$ME \rightarrow USS$	The ME sets up the call without modification	[Set up call to "+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	$User \to ME$	Set up a call to	
		"+01234567890123456789"	
2	$ME \to UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		1.4.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.4.1B	
3	$UICC \to ME$	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
4	$ME \to USS$	The ME does not set up the call	
5	$User \to ME$	The user calls the last dialled	
		number	
6	$ME \to UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		1.4.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		1.4.1B	
7	$UICC \to ME$	CALL CONTROL RESULT 1.4.1	[Call control result: "not Allowed"]
8	$ME \to USS$	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	$User \to ME$	Set up a call to "+0123456789"	
2	$ME \to UICC$	ENVELOPE CALL CONTROL 1.6.1A	[Option A shall apply for GERAN/UTRAN parameters]
		or ENVELOPE CALL CONTROL 1.6.1B	[Option B shall apply for PCS1900 parameters]
3	$UICC \to ME$	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
4	$ME \to USS$	The ME sets up the call to "+010203"	-
5	$User \to ME$	End call and then set up a call to "+01234567890123456789"	
6	$ME \to UICC$	ENVELOPE CALL CONTROL 1.6.1A	[Option A shall apply for GERAN/UTRAN parameters]
		or ENVELOPE CALL CONTROL	[Option B shall apply for PCS1900 parameters]
		1.6.1B	
7	$UICC \to ME$	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications"]
8	$ME \to USS$	The ME sets up the call to "+010203"	

# 27.22.6.1.5 Test requirement

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

# 27.22.6.2 Procedure for Supplementary (SS) Services

# 27.22.6.2.1 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	$User \to ME$	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	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		2.1.1A	parameters]
		or	Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters
		2.1.1B	[
3	$UICC \rightarrow ME$	90 00	
4	$ME \rightarrow USS$	REGISTER 2.1A	[The ME sends the supplementary
		or	service operation with the information as
		REGISTER 2.1B	sent to the UICC1
5	$USS \to ME$	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	80	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	80	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 $\rightarrow$ 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	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	Option A shall apply for GERAN/UTRAN
		2.2.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		2.2.1B	
3	$UICC \to ME$	CALL CONTROL RESULT 2.2.1	[Call control result: "Allowed without modifications"]
4	$ME \to USS$	REGISTER 2.1A	The ME sends the supplementary service
		or	operation with the information as sent to
		REGISTER 2.1B	the UICC
5	$USS \to ME$	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	$User \to ME$	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	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		2.3.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		2.3.1B	
3		CALL CONTROL RESULT 2.3.1	[Call control result: "Not Allowed"]
4	$ME \rightarrow USS$	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	$User \to ME$	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	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		2.4.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
_		2.4.1B	
3	$UICC \to ME$	CALL CONTROL RESULT 2.4.1	[Call control result: "Allowed with modifications"]
4	ME - LISS	REGISTER 2.4A	[The ME sends the supplementary
	IVIL 7000	or	service operation with the information as
		REGISTER 2.4B	sent by the UICC]
5	USS $\rightarrow$ ME	RELEASE COMPLETE (SS	,
	333 / 1112	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: C	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.: provisionedregistration ind.: registeredactivation 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	$User \to ME$	The user sets up a call to "4321"	
2	$ME \rightarrow UICC$	The ME does not send the	
		ENVELOPE (CALL CONTROL)	
		command to the USIM.	
3	$ME \to USS$	The ME does not set up the call.	

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

Step	Direction	Message / Action	Comments
1	$User \to ME$	The user sets up a call to "123"	
2	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		3.2.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		3.2.1B	
3	$UICC \to ME$	90 00	
4	$ME \to USS$	The ME sets up the call without	[Set up call to "123"]
		modification	

#### **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	$User \to ME$	The user sets up a call to "9876"	
2	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		3.3.1A	parameters]
		or	[Option B shall apply for PCS1900
			parameters]
		3.3.1B	
3	$UICC \to ME$	CALL CONTROL RESULT 3.3.1	[Call control result: "Allowed without modifications"]
4	$ME \to USS$	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	$User \to ME$	The user sets up a call to "9876"	
2	$ME \to UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		3.4.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	parameters]
		3.4.1B	
3	$UICC \to ME$	CALL CONTROL RESULT 3.4.1	[Call control result: "Not Allowed"]
4	$ME \to USS$	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	$User \to ME$	The user sets up a call to "9876"	
2	$ME \to UICC$		[Option A shall apply for GERAN/UTRAN parameters]
		or	Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL 3.5.1B	parameters]
3	$UICC \to ME$		[Call control result: "Allowed with modifications"]
4	$ME \to USS$	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  $EF_{ECC}$ , 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  $EF_{BDN}$  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 recheck 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	[Number as stored in record 1 of EF
		"+1357924680"	BDN]
2	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		4.1.1A or	parameters] [Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	[parameters]
		4.1.1B	
3	$UICC \to ME$	CALL CONTROL RESULT 4.1.1	[Call control result: "Not Allowed"]
4	$ME \rightarrow USS$	The ME does not set up the call	
5	$User \to ME$	The user sets up a call to the number stored in record 1 of EF	
		ADN	
6	$ME \to UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		4.1.2A	parameters]
		or ENVELOPE CALL CONTROL	[Option B shall apply for PCS1900 parameters]
		4.1.2B	parameters
7	$UICC \to ME$	CALL CONTROL RESULT 4.1.2	[Call control result: "Allowed without
			modifications"]
8	$ME \to USS$	The ME sets up the call without modification	
9	User $\rightarrow$ ME	The user sets up a call to	
	7 11.12	"123456"	
10	$ME \to UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		4.1.3A or	parameters] [Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL	[option B shall apply for PCS1900 [parameters]
		4.1.3B	parameters
11	$UICC \to ME$	CALL CONTROL RESULT 4.1.2	[Call control result: "Allowed without
10	ME LIGO	The MC acts up the call without	modifications"]
12	$ME \rightarrow USS$	The ME sets up the call without modification	
13	$User \to ME$	The user sets up a call to "1111"	
14	$ME \to UICC$	ENVELOPE CALL CONTROL	[Option A shall apply for GERAN/UTRAN
		4.1.4A	parameters]
		or ENVELOPE CALL CONTROL	[Option B shall apply for PCS1900 parameters]
		4.1.4B	
15	$UICC \to ME$	CALL CONTROL RESULT 4.1.3	[Call control result: "Allowed with
16	ME LICC	The ME gots up the cell with data	modifications"] [Set up call to "2222"]
10	$ME \rightarrow USS$	The ME sets up the call with data sent by the UICC	[Set up call to 2222]
17	$User \to ME$	The user shall use a MMI	
		dependent procedure to initiate	
18	ME  o User	the disabling of the BDN service Ask for second application PIN	
10	wi⊑ → USEI	verification	
19	$User \to ME$	The user shall enter the second	
00	ME 1	application PIN	
20	$ME \rightarrow UICC$	Update EF EST to disable BDN service	
21	$UICC \to ME$	UICC responds with SW = "90 00"	
22	ME → User	Indicate that the BDN service was	
20		disabled successfully	 
23	$User \to ME$	The user uses the MMI to store the directory number	[The alpha identifier is not changed.]
		"+876543210" in EF <sub>BDN</sub> as barred	
		dialling number 1 (record 1).	
24	$ME \to UICC$	Update EF BDN	
25	UICC → ME	UICC responds with SW = "90 00"	
26	$ME \rightarrow User$	The user attempts to set up a call to "+876543210".	
27a	$ME \rightarrow UICC$	No Envelope call control is sent	
27b	$ME \rightarrow USS$	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'

#### **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'

#### **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'.

#### **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'

# 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	$User \to ME$	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	$ME \to UICC$	No Envelope call control is sent	
2b	$ME \to USS$	The ME shall allow an emergency call by indicating the call setup as "Emergency Call".	
3	$User \to ME$	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	$ME \rightarrow UICC$	No Envelope call control is sent	
2b	$ME \rightarrow USS$	The ME shall allow an emergency call by indicating the call setup as "Emergency Call".	
3	$User \to ME$	End the emergency call.	
4	$User \to ME$	The user sets up an emergency call to an emergency number stored in the USIM.	
5a	$ME \to UICC$	No Envelope call control is sent	
5b	$ME \rightarrow USS$	The ME shall allow an emergency call by sending the emergency service category correctly as "Mountain Rescue".	
6	$User \to ME$	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	$User \to ME$	The user sets up a call to "123"	
2	$ME \to UICC$	ENVELOPE CALL CONTROL 4.3.1A	[Option A shall apply for GERAN/UTRAN parameters]
		or	Option B shall apply for PCS1900
		ENVELOPE CALL CONTROL 4.3.1B	parameters]
3	$UICC \to ME$	CALL CONTROL RESULT 4.3.1	[Call control result: "Allowed with modifications"]
4	$ME \to USS$	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									
	BER-TLV:	02	06	86	04	T –	86		

# 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	$User \to ME$	The user sets up a call to "+1357924680"	[Number as stored in record 1 of EF BDN]
2a	$ME \rightarrow UICC$	No ENVELOPE CALL CONTROL is sent	
2b	$ME \to USS$	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	$ME \rightarrow UICC$	No ENVELOPE CALL CONTROL is sent	
4b	$ME \to USS$	The ME does not set up the call	
5	$User \to ME$	The user sets up an emergency call to "112"	
6a	$ME \rightarrow UICC$	No ENVELOPE CALL CONTROL is sent	
6b	$ME \to USS$	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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
		1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
		EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	
		EVENT LIST 1.1.1	
5	$USS \to ME$	CALL SET UP without CLI	[MT Call Set Up Without CLI]
6	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	
		- MT Call 1.1.1	
7	$USS \to ME$	CALL DISCONNECT	
8	$USS \to ME$	CALL SET UP with CLI	[MT Call Set Up With CLI]
9	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	
		- MT Call 1.1.2	
10	$USS \to ME$	CALL DISCONNECT	

## PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number:

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) - If A.1/150 is supported, this shall not be verified

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) - If A.1/150 is supported, this shall not be verified

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, clause 8.25 and clause 8.28.

## 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.

To verify that the ME provides the correct value of the Transaction identifier to the UICC in the Call Connected Event.

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
		1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[EVENT: Call Connected active]
		EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	
		EVENT LIST 1.1.1	
5	$USS \to ME$	SETUP	[MT Call] TI = 0
6	$USER \to ME$	Accept Call Set Up	
7	ME→USS		
8	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	
		- Call Connected 1.1.1	
9		DISCONNECT	
10	$USER \to ME$	Initiate Call to "123"	
11	$ME \rightarrow USS$	SETUP	[MO Call] TI = 0
12	$USS \to ME$	CONNECT	
13	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	
		- Call Connected 1.1.2	
14	$USER \to ME$	End Call	
15	$ME \rightarrow USS$	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) - If A.1/150 is supported, this shall not be verified

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) - If A.1/150 is supported, this shall not be verified

TI flag: 1 (bit 8)

Coding:

BER-TLV: D6 0A 19 01 01 82 02 83 81 1C 01 80

# Expected Sequence 1.2 (EVENT DOWNLOAD -CALL CONNECTED, simultaneous calls, MT call followed by MO call)

Step	Direction	Message / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
		1.2.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[EVENT: Call Connected active]
		EVENT LIST 1.2.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	
		EVENT LIST 1.2.1	
5	$USS \to ME$	SETUP	[MT Call] TI = 0
6		Accept Call Set Up	
7	ME→USS		
8	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	
		- Call Connected 1.2.1	
9	$USER \to ME$	Initiate Call to "123"	
10	$ME \to USS$		[MO Call] TI = 1
11	$USS \to ME$		
12	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	
		- Call Connected 1.2.2	
13	$USER \to ME$	End Call "123"	
14	$ME \rightarrow USS$	DISCONNECT Call "123"	[MO Call] TI = 1
15	$USS \to ME$	DISCONNECT MT Call	[MT Call] TI = 0

# 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

Coding:

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

### 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

# EVENT DOWNLOAD - CALL CONNECTED 1.2.1

Logically:

Event list: Call connected

Device identities

Source device: ME
Destination device: UICC

Transaction identifier:

TI value: 0 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 1 (bit 8)

Coding:

#### **EVENT DOWNLOAD - CALL CONNECTED 1.2.2**

Logically:

Event list: Call connected

Device identities

Source device: Network
Destination device: UICC

Transaction identifier:

TI value: 1 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	01	82	02	83	81	1C	01	90	1
----------	----	----	----	----	----	----	----	----	----	----	----	----	---

# Expected Sequence 1.3 (EVENT DOWNLOAD -CALL CONNECTED, simultaneous calls, MO call followed by MO call)

Step	Direction	Message / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
		1.3.1	
2	/ 0.00	FETCH	
3		PROACTIVE COMMAND: SET UP EVENT LIST 1.3.1	[EVENT: Call Connected active]
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.3.1	
5	$USER \to ME$	Initiate Call to "123"	
6	$ME \rightarrow USS$	SETUP	[MO Call] TI = 0
7	$USS \to ME$	CONNECT	
8	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	
		- Call Connected 1.3.1	
9	$USER \to ME$	Initiate Call to "456"	
10	$ME \to USS$	SETUP	[MO Call] TI = 1
11	$USS \to ME$	CONNECT	
12	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	
		- Call Connected 1.3.2	
13	00-11 / 111-	End Call "456"	
14	$ME \to USS$	DISCONNECT Call "456"	[MO Call] TI = 1
15	$USS \to ME$	DISCONNECT Call "123"	[MO Call] TI = 0

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

## **EVENT DOWNLOAD - CALL CONNECTED 1.3.1**

Logically:

Event list: Call connected

Device identities

Source device: Network
Destination device: UICC

Transaction identifier:

TI value: 0 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	01	82	02	83	81	1C	01	80

## **EVENT DOWNLOAD - CALL CONNECTED 1.3.2**

Logically:

Event list: Call connected

Device identities

Source device: Network
Destination device: UICC

Transaction identifier:

TI value: 1 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	01	82	02	83	81	1C	01	90

# Expected Sequence 1.4 (EVENT DOWNLOAD -CALL CONNECTED, simultaneous calls, MO call followed by MT call)

Step	Direction	Message / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
		1.4.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[EVENT: Call Connected active]
		EVENT LIST 1.4.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	
_		EVENT LIST 1.3.1	
5	00=:: /=	Initiate Call to "123"	7.40 O W TI O
6	/ 000	SETUP	[MO Call] TI = 0
7	$USS \to ME$		
8	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	
		- Call Connected 1.4.1	TAT O 113 TI O
9	000 / III.E	SETUP	[MT Call] TI = 0
10		Accept Call Set Up	
11	/ 000	CONNECT	
12	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD	
		- Call Connected 1.4.2	
13	/ 000	DISCONNECT MT Call	[MO Call] TI = 0
14	$USS \to ME$	DISCONNECT MO Call	[MO Call] TI = 0

## 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 8	83	01	00	l
-------------------	-------	-------	------	----	----	----	---

#### EVENT DOWNLOAD - CALL CONNECTED 1.4.1

Logically:

Event list: Call connected

Device identities

Source device: Network
Destination device: UICC

Transaction identifier:

TI value: 0 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 1 (bit 8)

Coding:

BER-TLV: D	6 0A	19	01	01	82	02	83	81	1C	01	80	
------------	------	----	----	----	----	----	----	----	----	----	----	--

## EVENT DOWNLOAD - CALL CONNECTED 1.4.2

Logically:

Event list: Call connected

Device identities

Source device: ME
Destination device: UICC

Transaction identifier:

TI value: 0 (bit 5-7) - If A.1/150 is supported, this shall not be verified

TI flag: 1 (bit 8)

Coding:

BER-TLV:	D6	0A	19	01	01	82	02	82	81	1C	01	80

## 27.22.7.2.1.5 Test requirement

The behaviour of the test is as defined in Expected Sequences 1.1 to 1.4.

# 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

27.22.7.2.4.1 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
		2.1.1	
2	$ME \rightarrow UICC$		
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[EVENT: Call Connected active]
		EVENT LIST 2.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	
_	11100 ME	EVENT LIST 2.1.1	
5	UICC → ME	PROACTIVE COMMAND PENDING: SET UP CALL 2.1.1	
6	$ME \to UICC$		
7		PROACTIVE COMMAND: SET UP	[SAT Call]
<b>'</b>	OICC → IVIE	ICALL 2.1.1	[SAT Call]
8	ME → LISER	ME displays "+012340123456"	ME BEHAVIOUR: SET UP CALL
	WIL → OOLIK	during the user confirmation	INE BETWEET OF CALE
		phase.	
9	$USER \to ME$	Confirm call set up	
10	$ME \to USS$	SETUP	TI=0
11		CONNECT	
12	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	
		CALL 2.1.1	
13	$ME \to UICC$	ENVELOPE: CALL CONNECTED	
		2.1.1	

## PROACTIVE COMMAND: SET UP EVENT LIST 2.1.1

# Logically:

Command details

Command number:

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
DEIX IEV.	01	00	01	05	00	02	02	02	01	00	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) - If A.1/150 is supported, this shall not be verified

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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
		1.1.1	
2		FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	[EVENT: Call Disconnected active]
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	
.	ME - 0100	EVENT LIST 1.1.1	
5	$USS \to ME$	SETUP	[ incoming call ] TI=0
6	$USER \to ME$	Accept Call Set Up	
7	$USS \to ME$	RELEASE	[MT RELEASE]
8	$ME {\to}  UICC$	ENVELOPE: CALL DISCONNECTED 1.1.1	
9	$USS \to ME$	SETUP	[ incoming call ] TI=0
10		Accept Call Set Up	3 44 7
11	$USS \to ME$	RELEASE COMPLETE	[MT RELEASE COMPLETE]
12	$ME \rightarrow UICC$	ENVELOPE: CALL	
		DISCONNECTED 1.1.1	
13	$USS \to ME$	SETUP	[ incoming call ] TI=0
14	$USER \to ME$	Accept Call Set Up	
15	$USER \to ME$	End Call	
16	$ME \to USS$	DISCONNECT	[MO DISCONNECT]
17	$ME \to UICC$	ENVELOPE: CALL	
		DISCONNECTED 1.1.2A	
		or	
		ENVELOPE: CALL	
		DISCONNECTED 1.1.2B	
		or	
		ENVELOPE: CALL	
18	$USS \to ME$	DISCONNECTED 1.1.2C SETUP	[ incoming call ] TI=0
19		Accept Call Set Up	[ incoming call ] TI=0
20		DISCONNECT	[MT DISCONNECT + CAUSE: normal call
20	$USS \to ME$	DISCONNECT	clearing ]
21	$ME \rightarrow UICC$	ENVELOPE: CALL	cleaning ]
21	IVIE→ UICC	DISCONNECTED 1.1.3A	
		or	
		ENVELOPE: CALL	
		DISCONNECTED 1.1.3B	
22	$USS \to ME$	SETUP	TI=0
23		Accept Call Set Up	
24	USS	TX POWER to XX	[RADIO LINK FAILURE]
25	$ME \rightarrow UICC$	ENVELOPE: CALL	<u> </u>
		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:

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) - If A.1/150 is supported, this shall not be verified

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) - If A.1/150 is supported, this shall not be verified

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) - If A.1/150 is supported, this shall not be verified

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) - If A.1/150 is supported, this shall not be verified

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) - If A.1/150 is supported, this shall not be verified

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) - If A.1/150 is supported, this shall not be verified

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) - If A.1/150 is supported, this shall not be verified

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) - If A.1/150 is supported, this shall not be verified

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 (WB-S1 mode or NB-S1 mode) 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/NB-SS.

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).

# The NB-IoT parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;

## For cell 1:

- Tracking Area Code (TAC) = 0001;
- NB-IoT Cell Id = 0001 (28 bits);

# For cell 2:

- Tracking Area Code (TAC) = 0002;
- NB-IoT 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	$UICC \to ME$	PROACTIVE COMMAND	
		PENDING: SET UP EVENT LIST	
2	$ME \rightarrow UICC$	I.I.I   FETCH	
3	UICC → ME	PROACTIVE COMMAND: SET UP	
		EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	IF A.1/171 THEN ME sends a ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.1A [apply for GERAN/UTRAN parameters] or
			ENVELOPE: EVENT DOWNLOAD - Location Status 1.1.1B [apply for PCS1900 parameters].
5	USS	Cell 1 is switched off	, ,
6	$ME \to UICC$	ENVELOPE: EVENT DOWNLOAD	
7	LICC	- Location Status 1.1.1	
7	USS	Cell 2 is switched on after Location Status "No service" has been received in step 6	
8	ME	ME performs cell reselection to cell 2	
9	$ME \to USS$	LOCATION UPDATING REQUEST or ROUTING AREA UPDATE REQUEST	The ME is CS and/or PS registered depending on its capabilities
10	$USS \to ME$	LOCATION UPDATING ACCEPT or ROUTING AREA UPDATE ACCEPT	
11	$ME \to USS$	TMSI REALLOCATION COMPLETE or ROUTING AREA UPDATE COMPLETE	
12	$ME \to UICC$	ENVELOPE: EVENT DOWNLOAD	[Option A shall apply for GERAN/UTRAN
		- Location Status 1.1.2A	parameters]
		or ENVELOPE: EVENT DOWNLOAD	[Option B shall apply for PCS1900 parameters]
		- Location Status 1.1.2B	[Note: The inclusion of the location
		2558.511 518.00 111125	information is optional: (If location status
			indicates normal status)

# PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number: 1

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: 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:

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:	01	03	01	05	00	82	02	92	01	92	01	00
DLIX-ILV.	01	03	Οī	03	00	02	02	02	01	ಂ	UI	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:

BE	ER-TLV:	D6	0A	19	01	03	82	02	82	81	1B	01	02	l
----	---------	----	----	----	----	----	----	----	----	----	----	----	----	---

#### **EVENT DOWNLOAD - LOCATION STATUS 1.1.1A**

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)

 $LAC \quad the \ location \ Area \ Code \ (0001)$ 

Cell ID Cell Identity Value (0001)

Extended Cell ID RNC-id value (for Rel-4 onwards), see also Note 3

Coding:

BER-TLV:	D6	Note 1	19	01	03	82	02	82	81	1B	01	00
	13	Note 2	00	F1	10	00	01	00	01	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 1.1.1B**

#### 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 (0001)
Cell ID Cell Identity Value (0001)

## Coding:

BER-TLV:	D6	13	19	01	03	82	02	82	81	1B	01	00
	13	07	00	11	10	00	01	00	01			

## **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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
3	$ME \to UICC$	FETCH	
4	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
5	$ME \to UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	IF A.1/171 THEN ME sends a ENVELOPE: EVENT DOWNLOAD - Location Status 1.2.1A
6		Cell 1 is switched off	
7	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD - Location Status 1.2.1	
8	E-USS/NB-SS	Cell 2 is switched on after Location Status "No service" has been received in step 7	
9	ME	ME performs cell reselection to cell 2	
10	ME → E- USS/NB-SS	ME performs EPS ATTACH or TRACKING AREA UPDATE procedure	[E-UTRAN/NB-loT cell 2 accepts]
11	ME	ME reaches EMM_IDLE state	
12	$ME \rightarrow UICC$	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	Λ1	Λ3	82	02	82	81	1R	Λ1	02
DER-ILV.	טט	$\cup \cap$	13	U I	03	02	02	02	01	םו ו	Οī	02

**EVENT DOWNLOAD - LOCATION STATUS 1.2.1A** 

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 0001

E-UTRAN cell id: 0001 (28bits)

#### Coding:

BER-TLV:	D6	15	19	01	03	82	02	82	81	1B	01	00
	13	09	00	F1	10	00	01	00	00	00	1F	

#### **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	$UICC \to ME$	PROACTIVE COMMAND: SET UP	
		EVENT LIST 1.1.1 PENDING	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[EVENT: Browser termination Status]
		EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	[Successfully]
		EVENT LIST 1.1.1	
5	User→ME	Launch the browser with the URL	
		selected by the user	
6	$ME { ightarrow} USS$	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	$ME \rightarrow UICC$	ENVELOPE: BROWSER	
		TERMINATION 1.1.1	

#### PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number:

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:

Command type: SET UP EVENT LIST

Command qualifier: '00'

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

Coding:

В	ER-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 for sequence 1.1.

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 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.

 $For sequence \ 1.2 \ the \ default \ E-UTRAN/EPC \ UICC, the \ default \ E-UTRAN \ parameters \ and \ the \ following \ parameters \ are$ 

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.

#### 27.22.7.10.4.2 Procedure

## **Expected sequence 1.1 (EVENT DOWNLOAD - Data available)**

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND PENDING:	See initial conditions
		OPEN CHANNEL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: OPEN	[Command performed successfully]
		CHANNEL 1.1.1	
4	$ME \to USER$	The ME may display channel opening	
		information	
5	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6 address as PDP type.]
6	$USS \to ME$	PDP context activation accept	
7	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1A	
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
8	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SEND DATA 1.1.1	
9	$ME \rightarrow UICC$	FETCH	
10	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (immediate) 1.1.1	
11	$ME \rightarrow USS$	Transfer of 8 Bytes of data to the USS	[To retrieve ME's port number]
		through channel 1	
12	$ME \to UICC$	TERMINAL RESPONSE: SEND DATA	[Command performed successfully]
		(immediate) 1.1.1	
13	$USS \to ME$	Data sent through the BIP channel	
		using the ME's port number, which was	
		retrieved in step 11	
14	$ME \rightarrow UICC$	ENVELOPE 1.1.1 (Event-Data	
		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								

# **Expected sequence 1.2 (EVENT DOWNLOAD - Data available, E-UTRAN)**

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1 PENDING	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1	
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.2.1	See initial conditions
6	$ME \rightarrow UICC$	FETCH	
7	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.2.1	
8	$ME \rightarrow USER$	The ME may display channel opening information	
9	$\begin{array}{c} ME \to E- \\ USS/NB-SS \end{array}$	PDN CONNECTIVITY REQUEST	[The UE may request IPv4 or IPv4v6 as PDN type.]
10	$\begin{array}{c} \text{E-USS/NB-SS} \rightarrow \\ \text{ME} \end{array}$	ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST	[The E-UTRAN parameters are used]
11	$\begin{array}{c} ME \to E- \\ USS/NB-SS \end{array}$	ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT	
12	$ME \rightarrow UICC$	TERMINAL RESPONSE: OPEN CHANNEL 1.2.1	[Command performed successfully]
13	$UICC \to ME$	PROACTIVE COMMAND PENDING: SEND DATA 1.2.1	
14	$ME \rightarrow UICC$	FETCH	
15	$UICC \to ME$	PROACTIVE COMMAND: SEND DATA (immediate) 1.2.1	
16	ME → E- USS/NB-SS	Transfer of 8 Bytes of data to the USS through channel 1	[To retrieve ME's port number]
17	$ME \rightarrow UICC$	TERMINAL RESPONSE: SEND DATA (immediate) 1.2.1	[Command performed successfully]
18	ME	Data sent through the BIP channel using the ME's port number, which was retrieved in step 16	
19	$ME \rightarrow UICC$	ENVELOPE 1.2.1 (Event-Data Available)	[Command performed successfully]

## PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1

# 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 1.2.1

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 1.2.1

#### 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	3F	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
	80	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: 8 Bytes available in Rx buffer

Coding:

BER-TLV:	D6	0E	99	01	09	82	02	82	81	B8	02	81
•	00	B7	01	80								

#### 27.22.7.10.1.5 Test requirement

The ME shall operate in the manner defined in expected sequence 1.1 and 1.2.

#### 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 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 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 sequence 1.2 the default E-UTRAN/EPC UICC, the default E-UTRAN parameters and the following parameters are

used:

Bearer Parameters: Same Bearer Parameters as defined in 27.22.4.27.6.4.1

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.

#### 27.22.7.11.4.2 Procedure

#### Expected sequence 1.1 (EVENT DOWNLOAD - Channel Status on a link dropped)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP EVENT LIST 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[EVENT: channel status]
		EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP	[command performed successfully]
		EVENT LIST 1.1.1	
5	$UICC \to ME$		See initial conditions
_		OPEN CHANNEL 1.1.1	
6	$ME \rightarrow UICC$	FETCH	
7	$UICC \to ME$	PROACTIVE COMMAND: OPEN	
8	ME LUCED	CHANNEL 1.1.1	
0	$ME \to USER$	The ME may display channel opening information	
9	$ME \rightarrow USS$	PDP context activation request	[The UE may request IPv4 or IPv4v6
	IVIE -> USS	Di context activation request	address as PDP type.]
10	$USS \to ME$	PDP context activation accept	[ type.]
11	ME → UICC	TERMINAL RESPONSE: OPEN	[Command performed successfully]
	WL 70100	CHANNEL 1.1.1A	[Command ponomica caccectany]
		or	
		TERMINAL RESPONSE: OPEN	
		CHANNEL 1.1.1B	
12	$USS \to ME$	Link dropped	
13	$ME \to UICC$	ENVELOPE 1.1.1 (Event-Channel	
		Status)	

#### PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

## Logically:

Command details

Command number:

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	80
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											

# Expected sequence 1.2 (EVENT DOWNLOAD - Channel Status on a link dropped, E-UTRAN)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP EVENT LIST 1.2.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1	[EVENT: channel status]
4	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1	[command performed successfully]
5	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.2.1	See initial conditions
6	$ME \rightarrow UICC$	FETCH	
7	$UICC \to ME$	PROACTIVE COMMAND: OPEN CHANNEL 1.2.1	
8	$ME \rightarrow USER$	The ME may display channel opening information	
9	$\begin{array}{c} \text{ME} \rightarrow \text{E-USS/NB-} \\ \text{SS} \end{array}$	PDN CONNECTIVITY REQUEST	[The UE may request IPv4 or IPv4v6 as PDN type.]
10	$\begin{array}{c} \text{E-USS/NB-SS} \rightarrow \\ \text{ME} \end{array}$	ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST	
11	$\begin{array}{c} \text{ME} \rightarrow \text{E-USS/NB-} \\ \text{SS} \end{array}$	ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT	
12	ME → UICC	TERMINAL RESPONSE: OPEN CHANNEL 1.2.1A or TERMINAL RESPONSE: OPEN CHANNEL 1.2.1B	[Command performed successfully]
13	$\begin{array}{c} \text{E-USS/NB-SS} \rightarrow \\ \text{ME} \end{array}$	Link dropped	
14	$ME \rightarrow UICC$	ENVELOPE 1.2.1 (Event-Channel Status)	[Command performed successfully]

PROACTIVE COMMAND: SET UP EVENT LIST 1.2.1

## 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	0A										

#### TERMINAL RESPONSE: SET UP EVENT LIST 1.2.1

## 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 1.2.1

# 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 / 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 1.2.1A

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 / UTRAN packet service / E-UTRAN

Bearer parameter:

Precedence Class: 03
Delay Class: 04
Reliability Class: 02
Peak throughput class: 09
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

#### Coding:

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

TERMINAL RESPONSE: OPEN CHANNEL 1.2.1B

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 description

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

Bearer parameter:

Precedence Class: 03

Delay Class: 04
Reliability Class: 02
Peak throughput class: 09
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

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

ENVELOPE: EVENT DOWNLOAD - Channel Status 1.2.1

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 and 1.2.

# 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;

#### 27.22.7.12.1.4.2 Procedure

# Expected Sequence 1.1 (EVENT DOWNLOAD – Access Technology Change, single access technology)

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	IF A.1/171 THEN ME sends a ENVELOPE: EVENT DOWNLOAD - Access technology change Event
5	E-USS	ME detects a change in its current access technology	E-UTRA cell is enabled and UTRA cell is disabled
6	ME → UICC	ENVELOPE: EVENT DOWNLOAD – Access technology change Event 1.1.1	Access Technology = E-UTRAN
7	E-USS	ME detects a change in its current access technology	E-UTRA cell is disabled and UTRA cell is enabled
8	ME → UICC	ENVELOPE: EVENT DOWNLOAD – 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:

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 8	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.

## 27.22.7.15.3 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.

## 27.22.7.15.4 Method of test

#### 27.22.7.15.4.1 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.

# 27.22.7.15.4.2 Procedure

#### Expected sequence 1.1 (EVENT DOWNLOAD – Network search mode change)

Step	Direction	MESSAGE / Action	Comments
1	$UICC \to ME$	PROACTIVE COMMAND PENDING:	
		SET UP EVENT LIST 1.1.1	
2	$ME \to UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP	[EVENT: network search mode]
		EVENT LIST 1.1.1	
4	$ME \to UICC$	TERMINAL RESPONSE: SET UP	[command performed successfully]
		EVENT LIST 1.1.1	
5	User	The user sets the ME to manual	
		network selection mode	
6	$ME \to UICC$	ENVELOPE 1.1.1 (Event - Network	[changed to manual]
		search mode change)	
7	User	The user sets the ME to automatic	
		network selection mode	
8	$ME \to UICC$	`	[changed to automatic]
		search mode change)	

## PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number:

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:

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:

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

#### 27.22.7.15.1.5 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/NB-SS.

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;

The NB-IoT 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		No E-UTRAN/NB-IoT available	
2	$USER \to ME$	Switch on the terminal	
3	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
4	$ME \rightarrow UICC$	FETCH	
5	0.00 / <u>-</u>	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
7		The E-UTRAN/NB-IoT cell is switched on	
8	USER→ ME	The terminal is made to start a registration attempt to the E- USS/NB-SS	
9	ME→ E- USS/NB-SS	The terminal requests RRC CONNECTION and therefore starts the EPS Attach procedure	
10	E-USS/NB- SS→ ME	The E-USS/NB-SS sends EMM ATTACH REJECT with cause "PLMN not allowed"	
11	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD  - Network Rejection 1.1.1 or 1.1.2	

#### PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1

Logically:

Command details

Command number:

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	ì
	0B												ì

# 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-	The E-USS/NB-SS transmits on cell	1:
		USS/NB-SS and in EMM_IDLE	MCC:	001
			MNC:	)1
			TAC:	0003
2		Cell 1 is switched off		
3	$UICC \to ME$	PROACTIVE COMMAND		
		PENDING: SET UP EVENT LIST		
		1.1.1		
4	1112 7 0100	FETCH		
5	$UICC \to ME$	PROACTIVE COMMAND: SET UP		
		EVENT LIST 1.1.1		
6	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1		
7	E LICC/NID CC	The E-UTRAN/NB-IoT cell 2 is	The E-USS/NB-SS transmits on cell	2 .
/	E-033/ND-33	switched on		001
		Switched on		)1
			TAC:	0001
8	ME	The terminal is made to start a re-		
		registration attempt to the E-		
		UŠS/NB-SS		
9	ME→ E-	The terminal send TRACKING		
	USS/NB-SS	AREA UPDATE REQUEST		
10	E-USS/NB-SS	The E-USS/NB-SS sends		
	$\rightarrow$ ME	TRACKING AREA UPDATE		
		REJECT with cause "TRACKING		
		AREA not allowed"		
11	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD		
		<ul><li>Network Rejection 1.2.1 or 1.2.2</li></ul>		

# 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	80	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.

#### EFACSGL (Allowed CSG Lists)

#### Logically:

#### 1st CSG list

PLMN:	246 081 (MCC MNC)	
1st CSG list	1 <sup>st</sup> CSG Type indication	01
1st CSG list	1st CSG HNB Name indication	01
1st CSG list	1 <sup>st</sup> CSG CSG ID:	01 (27bit)
	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>HNBN</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	$UICC \to ME$	PROACTIVE COMMAND PENDING: SET UP EVENT LIST 1.1.1	
3	$ME \to UICC$	FETCH	
4	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
5	$ME \rightarrow UICC$	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	
6	E-USS	Cell 2 is enabled	
7	User→ ME	A manual CSG cell selection is performed. CSG ID=02 is selected.	
8	E-USS→ME	AttachReject with rejection cause #25 (not authorized for this CSG)	No ENVELOPE command is sent.
9	E-USS	Cell 2 is disabled Cell 1 is enabled	
10	User→ME	A manual CSG cell selection is performed. CSG ID=01 is selected.	
11	ME → UICC	ENVELOPE: EVENT DOWNLOAD  - CSG Cell selection 1.1.1A  OR  ENVELOPE: EVENT DOWNLOAD  - CSG Cell selection 1.1.1B	Camping on CSG cell, CSG ID=01
12	E-USS	Cell 1 is disabled	
13	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD  - CSG Cell selection 1.1.2	Leaving CSG cell with CSG ID=01. Not camped on a CSG cell.
14	E-USS	Cell 4 is enabled	
15	User→ ME	A manual CSG cell selection is performed. CSG ID=04 is selected.	
16	ME → UICC	ENVELOPE: EVENT DOWNLOAD  - CSG Cell selection 1.1.3A  OR  ENVELOPE: EVENT DOWNLOAD  - 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	80
	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	80
	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	80
	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 04 (27 bit) HNB name "HOME 04"

Coding:

BER-TLV:	D6	25	19	01	15	82	02	83	81	3F	01	80
	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 04 (27 bit) HNB name "HOME 04"

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 seperately, 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  $EF_{\text{UICCIARI}}$  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 execptions is used:

#### **EFIST (ISIM Service Table)**

 $EF_{IST}$  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.

## EFUICCIARI (UICC IARI list)

#### Record 1:

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

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

## 27.22.7.20.1.4.2 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	$UICC \to ME$	PROACTIVE COMMAND	[As response to the TERMINAL PROFILE
1		PENDING: SET UP EVENT LIST	command]
		1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND: SET UP EVENT LIST 1.1.1	
4	ME → UICC	TERMINAL RESPONSE: SET UP EVENT LIST 1.1.1	[The ME will read the ISIM Service Table and the UICC IARI list on the ISIM before it will attempt the initial registration to the IMS network]
5	$ME \rightarrow NWS$ $NWS \rightarrow ME$	ME attempts to register to IMS services with values derived from the ISIM and additionally registers the IARI from EF <sub>UICCIARI</sub> during the intial registration or subsequent registration to IMS services.	[Initial registration to the IMS network is performed according to TS 34.229-1 [36], Annex C.2]
6	ME → UICC	ENVELOPE: EVENT DOWNLOAD  – IMS registration 1.1.1	[After the IARI "urn:ur-7:3gpp-application.ims.iari.uicctest" has been successfully registered during the intial or a subsequent SIP REGISTER message containing this IARI.  If the IARI "urn:ur-7:3gpp-application.ims.iari.uicctest" is not registered during the intial registration to the IMS network further Envelopes – Event Download – IMS Registration without the IARI might have been received. These shall be ignored by the USIM Simulator.]
7	$NWS \to ME$	IMS network sends SIP INVITE message with UICC IARI	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
8	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD  - Incoming IMS data 1.1.1	
9	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
10	$ME \to UICC$	FETCH	
11	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL for IMS 1.1.1	
12	ME	Channel id, buffer assigned	
13	$ME \rightarrow UICC$	TERMINAL RESPONSE : OPEN CHANNEL for IMS 1.1.1	[Command performed successfully]
14	$ME \rightarrow UICC$	ENVELOPE: EVENT DOWNLOAD  – Data Available 1.1.1	
15	$UICC \to ME$	PROACTIVE COMMAND PENDING: RECEIVE DATA 1.1.1	
16	$ME \rightarrow UICC$	FETCH	
17	$UICC \to ME$	PROACTIVE COMMAND: RECEIVE DATA 1.1.1	
18	$ME \to UICC$	TERMINAL RESPONSE: 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	19	01	17	82	02	83	81	77	Note	Note
		1									2	3

Note 1: The TLV length depends on the IMPU list content

Note 2: The IMPU TLV length depends on the IMPU list entries.

Note 3: The IMPU list shall contain the IMPU "urn:ur-7:3gpp-application.ims.iari.uicctest" and

might contain further IMPUs

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

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:

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		ху	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 facitily 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.

For test sequences 1.1 to 1.8 the ME is connected to USS or SS.

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.

For test sequences 1.10 to 1.17 the ME is connected to the E-USS/NB-SS, where:

- SMS over SGs (DOWNLINK NAS TRANSPORT and UPLINK NAS TRANSPORT messages) is used to send and receive short messages

The E-USS parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Tracking Area Code (TAC) = 0001;
- E-UTRAN Cell Id = 0001.

The NB-SS parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;

- Tracking Area Code (TAC) = 0001;
- NB-IoT Cell Id = 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	[Option A shall apply for GERAN/UTRAN
		1.1.1A	parameters]
		Or	[Option B shall apply for PCS1900
		ENVELOPE: MO SHORT MESSAGE CONTROL	parameters]
		1.1.1B	
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 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	OC
	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 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	[The data entered and the ME settings
		Message" and sends it to +012345678.	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	[Option A shall apply for GERAN/UTRAN
		1.1.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE: MO SHORT MESSAGE CONTROL	parameters]
		1.1.1B	
3	UICC -> ME	MO SHORT MESSAGE CONTROL RESULT	[ "Allowed, no modification"]
		1.1.1	
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-NRP value shall not be verified

TP-MR "01"

TP-DA

TON International number

NPI "ISDN / telephone numbering plan"

Address value "012345678"

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	[Option A shall apply for
		or	GERAN/UTRAN parameters]
		ENVELOPE : MO SHORT MESSAGE CONTROL 1.1.1B	[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

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	[The data entered and the ME settings
		Message" and sends it to +012345678.	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	[Option A shall apply for GERAN/UTRAN
		1.1.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE : MO SHORT MESSAGE CONTROL	parameters]
		1.1.1B	
3	UICC -> ME	MO SM CONTROL RESULT 1.3.1	[ "Not allowed"]
4	$ME \rightarrow USS$	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	Send SMS to "+012345678"
		1.1.1	
4	ME -> USER	Display "Send SM"	[Alpha Identifier]
5	ME -> UICC	ENVELOPE: MO SHORT MESSAGE CONTROL	[Option A shall apply for GERAN/UTRAN
		1.1.1A	parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE: MO SHORT MESSAGE CONTROL	parameters]
		1.1.1B	
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 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 packing not required

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

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

# 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	[The data entered and the ME settings
		Message" and sends it to +012345678.	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	[Option A shall apply for GERAN/UTRAN parameters]
		or	[Option B shall apply for PCS1900
		ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	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 or ENVELOPE: MO SHORT MESSAGE CONTROL 1.1.1B	[Option A shall apply for GERAN/UTRAN parameters] [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	$User \to ME$	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	1.1.1 A or	[Option A shall apply for GERAN/UTRAN parameters] [Option B shall apply for PCS1900 parameters]
3	$UICC \to ME$	90 00	
4	$ME \rightarrow USS$		[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

# Expected Sequence 1.10 (MO SM CONTROL BY USIM over SG in E-UTRAN, 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	$ME \rightarrow USER$	Display "Send SM"	[Alpha Identifier]
5	$ME \rightarrow UICC$	ENVELOPE: MO SHORT MESSAGE CONTROL	
		1.10.1	
6	UICC → ME	MO SMS CONTROL RESULT 1.1.1	[ "Allowed, no modification"]
7	ME → E-	Send SMS-PP Message 1.10	[The ME sends the SM containing SMS-PP
	USS/NB-SS		(SEND SHORT MESSAGE) Message 1.10
			without modification]
8	E-USS/NB-SS	RP-ACK	
	$\rightarrow$ ME		
9	ME → UICC	TERMINAL RESPONSE: SEND SHORT	
		MESSAGE 1.1.1	

## SMS-PP (SEND SHORT MESSAGE) Message 1.10

#### 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 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 1.10.1

## 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** 

Mobile Country Codes (MCC)001Mobile Network Codes (MNC)01Tracking Area Code (TAC):0001E-UTRAN Cell Identifier (ECI):0001

## Coding:

Coding	D5	22	02	02	82	81	06	09	91	11	22
	33	44	55	66	77	F8	06	06	91	10	32
	54	76	F8	13	09	00	F1	10	00	01	00
	00	00	1F								

# Expected Sequence 1.11 (MO SM CONTROL BY USIM over SG in E-UTRAN, 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 1.11.
2	ME → UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.10.1	, ,
3	UICC → ME	MO SHORT MESSAGE CONTROL RESULT 1.1.1	[ "Allowed, no modification"]
4	ME → E- USS/NB-SS	Send SMS-PP Message 1.11	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.11 without modification]
5	E-USS/NB-SS → ME	RP-ACK	-

# SMS-PP (SEND SHORT MESSAGE) Message 1.11

## Logically:

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 1.12 (MO SM CONTROL BY USIM over SG in E-UTRAN, with Proactive command, Not allowed)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT	
		MESSAGE 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \rightarrow ME$	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	
4	$ME \rightarrow USER$	Display "Send SM"	[The display of the Alpha Identifier
			shall not be verified]
5	$ME \rightarrow UICC$	ENVELOPE: MO SHORT MESSAGE CONTROL 1.10.1	
6	$UICC \rightarrow ME$	MO SHORT MESSAGE CONTROL RESULT 1.3.1	
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→ E-	The ME does not send the Short Message	
	USS/NB-SS		

# Expected Sequence 1.13 (MO SM CONTROL BY USIM over SG in E-UTRAN, 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 1.10.
2	ME → UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.10.1	
3	$UICC \rightarrow ME$	MO SM CONTROL RESULT 1.3.1	[ "Not allowed"]
4	ME → E- USS/NB-SS	The ME does not send the Short Message	-

# Expected Sequence 1.14 (MO SM CONTROL BY USIM over SG in E-UTRAN, with Proactive command, Allowed with modifications)

Step	Direction	Message / Action	Comments
1	UICC → ME	PROACTIVE COMMAND PENDING: SEND SHORT MESSAGE 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	UICC → ME	PROACTIVE COMMAND: SEND SHORT MESSAGE 1.1.1	Send SMS to "+012345678"
4	$ME \rightarrow USER$	Display "Send SM"	[Alpha Identifier]
5	ME → UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.10.1	
6 7	UICC → ME ME → E- USS/NB-SS	MO SM CONTROL RESULT 1.5.1 Send SMS-PP Message 1.14	["Allowed with modifications"] [The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.14 with the data provided by the UICC to the changed Service Center Address "+112233445566779"]
8	E-USS/NB-SS → ME	RP-ACK	,
9	ME →UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.5.1	

SMS-PP (SEND SHORT MESSAGE) Message 1.14

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 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 coding8-bit dataMessage classclass 0TP-UDL12

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

# Expected Sequence 1.15 (MO SM CONTROL BY USIM over SG in E-UTRAN, 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 1.15.
2	ME → UICC	ENVELOPE: MO SHORT MESSAGE CONTROL 1.10.1	
3 4	UICC → ME ME→ E- USS/NB-SS	MO SM CONTROL RESULT 1.5.1 Send SMS-PP Message 1.15	[ "Allowed with modifications"] [The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.15 with the data provided by the UICC to the changed Service Center Address "+112233445566779"]
5	E-USS/NB-SS → ME	RP-ACK	

## SMS-PP (SEND SHORT MESSAGE) Message 1.15

## Logically:

**SMS TPDU SMS-SUBMIT** TP-MTI value shall not be verified TP-RD TP-VPF value shall not be verified value shall not be verified TP-RP value shall not be verified TP-UDHI value shall not be verified TP-SRR "01" TP-MR TP-DA TON International number NPI "ISDN / telephone numbering plan" Address value "012345679"

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 1.16 (MO SM CONTROL BY USIM over SG in E-UTRAN, 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 1.10.1	
6	UICC → ME	90 00	
7	ME → E- USS/NB-SS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.10 without modification]
8	E-USS/NB-SS → ME	RP-ACK	
9	ME → UICC	TERMINAL RESPONSE: SEND SHORT MESSAGE 1.1.1	

# Expected Sequence 1.17 (MO SM CONTROL BY USIM over SG in E-UTRAN, 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 1.11.
2	ME → UICC	ENVELOPE : MO SHORT MESSAGE CONTROL 1.10.1	, ,
3	UICC → ME	90 00	
4	ME → E- USS/NB-SS	Send SMS-PP	[The ME sends the SM containing SMS-PP (SEND SHORT MESSAGE) Message 1.11 without modification]
5	E-USS/NB-SS → ME	RP-ACK	

# 27.22.8.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.7.

# 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

## 27.22.10 CALL CONTROL on EPS PDN Connection

## 27.22.10.1 Procedure for Mobile Originated calls

#### 27.22.10.1.1 Definition and applicability

See clause 3.2.2.

# 27.22.10.1.2 Conformance requirement

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

- TS 31.111 [15] clause 7.3, clause 7.3.1.8, clause 8.98
- TS 24.301 [32], clause 6.4.3.2 and 6.5.4
- TS 36.508 [33], clause 6.6.1.

## 27.22.10.1.3 Test purpose

To verify that when the service "call control on EPS PDN connection by USIM" is available in the USIM Service Table, then for all EPS PDN connection activation (including those resulting from a OPEN CHANNEL proactive UICC command where E-UTRAN is selected), the ME shall first pass the corresponding PDN Connectivity Request message to the UICC, using the ENVELOPE (CALL CONTROL) command. The ME shall also pass to the UICC in the ENVELOPE (CALL CONTROL) command the current serving cell.

To verify that the ME interpret the UICC returns response correctly.

## 27.22.10.1.4 Method of tests

#### 27.22.10.1.4.1 Initial conditions

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

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

Network access name: TestGp.rs User login: UserLog User password: UserPwd

UICC/ME interface transport level

Transport format: TCP
Port number: 44444

Data destination address: 01.01.01.01 (as an example)

The E-USS parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Tracking Area Code (TAC) = 0001;
- E-UTRAN Cell Id = 0001.

The NB-SS parameters of the system simulator are:

- Mobile Country Code (MCC) = 001;
- Mobile Network Code (MNC) = 01;
- Tracking Area Code (TAC) = 0001;
- NB-IoT Cell Id = 0001.

The elementary files are coded as USIM Application Toolkit default with the following exceptions:

- The call control on EPS PDN connection by USIM service is available in the USIM Service Table.

#### 27.22.10.1.4.2 Procedure

# Expected Sequence 1.1 (CALL CONTROL on EPS PDN for E-UTRAN – default PDN connection activation, allowed without modification)

Step	Direction	Message / Action	Comments
0	$USER \rightarrow ME$	Set and configure APN	[see initial conditions]
1	ME → UICC	"TestGp.rs" in the terminal configuration if required ENVELOPE CALL CONTROL 1.1.1	For default PDN establishment during ATTACH procedure
2	UICC → ME	CALL CONTROL RESULT 1.1.1	[Call control result: "Allowed", no modification]
3	ME → E- USS/NB-SS	The PDN connection is established successfully without modification	Same EPS PDN activation parameters used by the ME within the ENVELOPE CALL CONTROL are used to establish the PDN connection

## **ENVELOPE CALL CONTROL 1.1.1**

Logically:

Device identities

Source device: ME
Destination device: UICC

EPS PDN connection activation parameters

Protocol Discriminator: EPS session management messages

EPS bearer identity: No EPS bearer identity assigned

Procedure Transaction Identity: 1

PDN connectivity request message identity: PDN connectivity request

Request type: Initial request PDN Type: IPv4 and/or IPv6

Access Point Name: TestGp.rs

Protocol configuration options:

Protocol config. optional contents: content not checked

Capability configuration parameters 1

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

**Location Information** 

Mobile Country Codes (MCC)001Mobile Network Codes (MNC)01Tracking Area Code (TAC):0001E-UTRAN Cell Identifier (ECI):000000001

Capability configuration parameters 2

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

Coding:

BER-TLV:	D4	Note1	02	02	82	81	7C	Not	02	01	D0	X1
								e 2				Not
												e 3
	D1	28	0	09	54	65	73	74	47	70	2E	72
			Α									
'	73	Note	13	09	00	F1	10	00	01	00	00	00
		4										
	1F											

Note 1: The length of the BER-TLV is present here.

Note 2: Length of EPS PDN connection activation parameters, dependent of optional fields.

Note 3: X is the PDN Type.

Note 4: Optional fields.

CALL CONTROL RESULT 1.1.1

Logically:

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

Coding:

BER-TLV: 00 00

# Expected Sequence 1.2 (CALL CONTROL on EPS PDN for E-UTRAN – default PDN connection activation, not allowed)

Step	Direction	Message / Action	Comments
0	$USER \to$	Set and configure APN	[see initial conditions]
	ME	"TestGp.rs" in the terminal configuration if required	
1	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL 1.1.1	For default PDN establishment during ATTACH procedure
2	$UICC \to ME$	CALL CONTROL RESULT 1.2.1	[Call control result: " not Allowed", ] The ME may retry to send the command.
3		The ME shall not send the PDN Connectivity Request message.	

CALL CONTROL RESULT 1.2.1

Logically:

Call control result: '01' = not Allowed

Coding:

BER-TLV: 01 00

# Expected Sequence 1.3 (CALL CONTROL on EPS PDN for E-UTRAN – default PDN connection activation, allowed with modification)

Step	Direction	Message / Action	Comments
0	$USER \to ME$	Set and configure APN	[see initial conditions]
1	ME → UICC	"TestGp.rs" in the terminal configuration if required ENVELOPE CALL CONTROL 1.1.1	For default PDN establishment during ATTACH procedure
2	UICC → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed with modifications"]
3	ME → E- USS/NB-SS	The PDN connection is established successfully with modification	Same EPS PDN activation parameters returned by the UICC in the CALL CONTROL RESULT 1.3.1 are used to establish the PDN connection.

## CALL CONTROL RESULT 1.3.1

Logically:

Call control result: '02' = Allowed with modifications

Address:

EPS PDN connection activation parameters

Protocol Discriminator: EPS session management messages EPS bearer identity: No EPS bearer identity assigned

Procedure Transaction Identity:

PDN connectivity request message identity: PDN connectivity request

Request type: Initial request

PDN Type: same PDN Type in step 1)

Access Point Name: Test12.rs

Coding:

BER-TLV:	02	Note 1	7C	Note 2	02	01	D0	X1	28	0A
								Note 3		
	09	54	65	73	74	31	32	2E	72	73
	Note 4									

Note 1: The length of the BER-TLV is present here.

Note 2: Length of EPS PDN context activation parameters, dependant of optional fields.

Note 3: X is the PDN Type.

Note 4: Optional fields, same as in ENVELOPE CALL CONTROL 1.1.1.

# Expected Sequence 1.4 (CALL CONTROL on EPS PDN for E-UTRAN – PDN connection triggered by user, UICC sends 90 00)

Step	Direction	Message / Action	Comments
0	$USER \to ME$ $ME \to UICC$	Set and configure APN "TestGp.rs" in the terminal configuration if required ENVELOPE CALL CONTROL	[see initial conditions]  For default PDN establishment during
		1.1.1	ATTACH procedure Same EPS PDN activation parameters used by the ME within the ENVELOPE CALL CONTROL in are used to establish the PDN connection
2	$UICC \to ME$	90 00	
3	$USER \to ME$	Set and configure APN "Test12.rs" in the terminal configuration if required, and trigger the ME to establish a PDN connection	[see initial conditions]
4	$ME \to UICC$	ENVELOPE CALL CONTROL 1.4.1	
5	0.00 /	90 00	
6		PDN CONNECTIVITY REQUEST	
7	E-USS → ME	ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST	[The E-UTRAN parameters are used]
8	$ME \to E\text{-}USS$	ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT	
9	ME → E-USS	The PDN connection is established successfully without modification	Same EPS PDN activation parameters used by the ME within the ENVELOPE CALL CONTROL in step 5 are used to establish the PDN connection

## ENVELOPE CALL CONTROL 1.4.1

Logically:

Device identities

Source device: ME

Destination device: UICC

EPS PDN connection activation parameters

Protocol Discriminator: EPS session management messages

EPS bearer identity: No EPS bearer identity assigned

Procedure Transaction Identity: 2

PDN connectivity request message identity: PDN connectivity request

Request type: Initial request

PDN Type: IPv4 and/or IPv6

Access Point Name: Test12.rs

Other Protocol configuration options:

Protocol config. options contents: not checked

**Location Information** 

Mobile Country Codes (MCC) 001

Mobile Network Codes (MNC) 01

Tracking Area Code (TAC): 0001

E-UTRAN Cell Identifier (ECI): 000000001

## Coding:

BER-TLV:	D4	Note 1	02	02	82	81	7C	Not	02	01	D0	Note 3
								e 2				
	D1	28	0A	09	54	65	73	74	31	32	2E	72
	73		Note 4	13	09	00	F1	10	00	01	00	01
	00	01										

Note 1: The length of the BER-TLV is present here.

Note 2: Length of EPS PDN connection activation parameters, dependant of optional fields.

Note 3: X is the PDN Type.

Note 4: Optional fields.

# Expected Sequence 1.5 (CALL CONTROL on EPS PDN for E-UTRAN – PDN connection triggered by user, UICC sends 93 00)

Step	Direction	Message / Action	Comments
1	ME → UICC	ENVELOPE CALL CONTROL 1.1.1	For default PDN establishment during ATTACH procedure Same EPS PDN activation parameters used by the ME within the ENVELOPE CALL CONTROL are used to establish the PDN connection.
2 3	$\begin{array}{c} UICC \to ME \\ USER \to ME \end{array}$	90 00 Set and configure APN "Test12.rs" in the terminal configuration if required, and trigger the ME to establish a PDN connection	[see initial conditions]
4	ME → UICC	ENVELOPE CALL CONTROL 1.4.1	
5 6	UICC → ME ME → E-USS	93 00 The ME shall not send the PDN Connectivity Request message.	The ME may retry to send the command.

# Expected Sequence 1.6 (CALL CONTROL on EPS PDN for E-UTRAN – PDN connection triggered by user, allowed with modification)

Step	Direction	Message / Action	Comments
0	$USER \to$	Set and configure APN	[see initial conditions]
	ME	"TestGp.rs" in the terminal	
1	ME → UICC	configuration if required ENVELOPE CALL CONTROL 1.1.1	For default PDN establishment during ATTACH procedure Same EPS PDN activation parameters used by the ME in the ENVELOPE CALL CONTROL 1.1.1 are used to establish the PDN connection
2	UICC → ME	90 00	
3	USER → ME	Set and configure APN "Test12.rs" in the terminal configuration if required, and trigger the ME to establish a PDN connection	[see initial conditions]
4	ME → UICC	ENVELOPE CALL CONTROL 1.4.1	
5	UICC → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications", ]
6	$\begin{array}{c} ME \to E- \\ USS \end{array}$	PDN CONNECTIVITY REQUEST	modifications , j
7		ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST	[The E-UTRAN parameters are used]
8	$\begin{array}{c} \text{ME} \rightarrow \text{E-} \\ \text{USS} \end{array}$	ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT	
9	ME → E- USS	The PDN connection is established successfully with modification	Same EPS PDN activation parameters returned by the UICC in the CALL CONTROL RESULT 1.6.1 are used to establish the PDN connection.

## CALL CONTROL RESULT 1.6.1

Logically:

Call control result: '02' = Allowed with modifications

Address:

EPS PDN connection activation parameters

Protocol Discriminator: EPS session management messages EPS bearer identity: No EPS bearer identity assigned

Procedure Transaction Identity:

PDN connectivity request message identity: PDN connectivity request

Request type: Initial request

PDN Type: same PDN Type in step 5)

Access Point Name: Test13.rs

BER-TLV:	02	Note 1	7C	Note	02	02	D0	X1	28	0A
				2				Note 3		
	09	54	65	73	74	31	33	2E	72	73
	Note 4									

Note 1: The length of the BER-TLV is present here.

Note 2: Length of EPS PDN context activation parameters, dependant of optional fields.

Note 3: X is the PDN Type.

Note 4: Optional fields, same as in ENVELOPE CALL CONTROL 1.4.1.

# Expected Sequence 1.7 (CALL CONTROL on EPS PDN - PDN connection activation from OPEN CHANNEL command)

Step	Direction	Message / Action	Comments
0	$USER \to ME$	Set and configure APN	[see initial conditions]
1	ME → UICC	"TestGp.rs" in the terminal configuration if required ENVELOPE CALL CONTROL 1.1.1	For default PDN establishment during ATTACH procedure Same EPS PDN activation parameters used by the ME within the ENVELOPE CALL CONTROL are used to establish the PDN connection
2	$UICC \to ME$	90 00	
3	$USER \to ME$	Set and configure APN "Test12.rs" in the terminal	[see initial conditions]
4	$UICC \to ME$	configuration if required PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
5	$ME \rightarrow UICC$	FETCH	
6	$UICC \to ME$	PROACTIVE COMMAND : OPEN	
7	ME → USER	CHANNEL 1.1.1 The ME may display channel opening information	
8	ME → UICC	ENVELOPE CALL CONTROL 1.4.1	
9	$UICC \to ME$	90 00	
10	$ME \rightarrow E$ -USS	PDN CONNECTIVITY REQUEST	The UE may request IPv4 or IPv4v6 as PDN type
11	$E\text{-}USS\toME$	ACTIVATE DEFAULT EPS BEARER CONTEXT REQUEST	[The E-UTRAN parameters are used]
12	$ME \rightarrow E$ -USS	ACTIVATE DEFAULT EPS BEARER CONTEXT ACCEPT	
13	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 1.1.1A OR TERMINAL RESPONSE : OPEN CHANNEL 1.1.1B	[Command performed successfully OR Command performed with modifications]
14	ME → E-USS	The PDN connection is established successfully without modification	Same EPS PDN activation parameters returned by the ME within the ENVELOPE CALL CONTROL in step 8 are used to establish the PDN connection.

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

Command details

Command number:

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: 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	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	30	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 1.1.1A

## Logically:

Command details

Command number: 1

Command type: OPEN CHANNEL

Command qualifier: immediate link establishment

Device identities

Source device: ME
Destination device: UICC

Result

General Result: Command performed successfully

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

Bearer description

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

Bearer parameter:

Precedence Class: 03
Delay Class: 04
Reliability Class: 02
Peak throughput class: 09
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

## Coding:

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

TERMINAL RESPONSE: OPEN CHANNEL 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 with modifications

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

Bearer description

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

Bearer parameter:

Precedence Class: 03
Delay Class: 04
Reliability Class: 02
Peak throughput class: 09
Mean throughput class: 31
Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

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

## 27.22.10.1.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.7.

## 27.22.11 CALL CONTROL on PDP Context Activation

## 27.22.11.1 Procedure for Mobile Originated calls

## 27.22.11.1.1 Definition and applicability

See clause 3.2.2.

## 27.22.11.1.2 Conformance requirement

The ME shall support the CALL CONTROL for PDP Context Activation facility as defined in:

- TS 31.111 [15] clause 7.3, clause 7.3.1.7, clause 8.72
- TS 24.008 [10], clause 6.1.3.3, 9.5.7 and 9.5.8
- TS 36.508 [33], clause 4.8.4.

## 27.22.11.1.3 Test purpose

To verify that when the service "call control on GPRS by USIM" is available in the USIM Service Table, then for all PS PDP Context Activation (including those resulting from an OPEN CHANNEL proactive UICC command where UTRAN is selected), the ME shall first pass the corresponding Activate PDP Context message to the UICC, using the ENVELOPE (CALL CONTROL) command. The ME shall also pass to the UICC in the ENVELOPE (CALL CONTROL) command the current serving cell.

To verify that the ME interpret the UICC returns response correctly.

## 27.22.11.1.4 Method of tests

#### 27.22.11.1.4.1 Initial conditions

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

The default GERAN/UTRAN/EPC UICC, the default GERAN/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)

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 simulator must accept connections requests for APNs: TestGp.rs, Test12.rs and Test13.rs

The elementary files are coded as USIM Application Toolkit default with the following exceptions:

- The call control on GPRS by USIM service is available in the USIM Service Table.

## 27.22.11.4.2 Procedure

# Expected Sequence 1.1 (CALL CONTROL on PDP Context Activation – default PDP connection activation, allowed without modification)

Step	Direction	Message / Action	Comments
0	USER → ME	Set and configure APN	[see initial conditions]
1	ME → UICC	"TestGp.rs" in the terminal configuration if required. ENVELOPE CALL CONTROL 1.1.1	For default PDP establishment during ATTACH procedure
2	UICC → ME	CALL CONTROL RESULT 1.1.1	[Call control result: "Allowed", no modification]
3	ME → USS/SS	The PDP connection is established successfully without modification	Same PDP activation parameters used by the ME within the ENVELOPE CALL CONTROL 1.1.1 are used to establish the PDN connection

## **ENVELOPE CALL CONTROL 1.1.1**

## Logically:

Device identities

Source device: ME
Destination device: UICC

PDP Context Activation parameters

Protocol Discriminator: GPRS session management messages

Transaction Identifier: 0

Request PDP context activation message identity: Activate PDP context request

Requested NSAPI: NSAPI 5
Requested LLC SAPI: SAPI 3

Requested QoS: Subscribed QoS parameters

Requested PDP address:

PDP type organisation: as declared by the ME
PDP type: as declared by the ME
Address: as declared by the ME

Access point name: 06 54 65 73 74 47 70 02 72 73 ("TestGp.rs")

Protocol configuration options:

Protocol config. optional contents: content not checked

**Location Information** 

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 6

## Coding:

BER-TLV	D4	Note1	02	02	82	81	52	Note2	0A	41	05	03	0E
	00	00	00	00	00	00	00	00	00	00	00	00	00
	00	Note3	28	0A	06	54	65	73	74	47	70	02	72
	73	Note4	13	Note5	00	F1	10	00	01	00	01	Note6	

Note1: Length of BER-TLV, dependant of optional fields.

Note2: Length of PDP context activation parameters, dependant of optional fields.

Note3: Requested PDP Address.

Note4: Optional fields.

Note5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note6: 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 1.1.1

Logically:

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

BER-TLV: 00 00

# Expected Sequence 1.2 (CALL CONTROL on PDP Context Activation – default PDP connection activation, not allowed)

Step	Direction	Message / Action	Comments
0	$USER \to ME$	Set and configure APN "Test.Gp.rs" in the terminal configuration if required	[see initial conditions]
1	ME → UICC		For default PDP establishment during ATTACH procedure
2	$UICC \to ME$		[Call control result: " not Allowed", ] The ME may retry to send the command.
3	$ME \rightarrow USS/SS$	The ME shall not send the Activate PDP Context Request message.	

#### CALL CONTROL RESULT 1.2.1

Logically:

Call control result: '01' = not Allowed

Coding:

BER-TLV: 01 00

# Expected Sequence 1.3 (CALL CONTROL on PDP Context Activation – default PDP connection activation, allowed with modification)

Step	Direction	Message / Action	Comments
0	$USER \to ME$	Set and configure APN	[see initial conditions]
		"TestGp.rs" in the terminal configuration if required	
1	ME → UICC	ENVELOPE CALL CONTROL 1.1.1	For default PDP establishment during ATTACH procedure
2	UICC → ME	CALL CONTROL RESULT 1.3.1	[Call control result: "Allowed with modifications"]
3	ME → USS/SS	The PDP connection is established successfully with modification	Same PDP activation parameters returned by the UICC within the CALL CONTROL RESULT 1.3.1 are used to establish the PDP connection

## CALL CONTROL RESULT 1.3.1

Logically:

Call control result: '02' = Allowed with modifications

Address:

PDP Context Activation parameters

Protocol Discriminator: GPRS session management messages

Transaction Identifier: 0

Request PDP context activation message identity: Activate PDP context request

Requested NSAPI: NSAPI 5
Requested LLC SAPI: SAPI 3

Requested QoS: Subscribed QoS parameters

Requested PDP address:

PDP type organisation:

PDP type:

as declared by the ME
as declared by the ME
as declared by the ME

Access point name: 06 54 65 73 74 31 32 02 72 73 ("Test12.rs")

#### Coding:

BER-TLV:	02	Note1	52	Note2	0A	41	05	03	0E	00	00	00
	00	00	00	00	00	00	00	00	00	00	00	Note3
	28	0A	06	54	65	73	74	31	32	02	72	73
	Note/											

Note1: Length of BER-TLV, dependant on optional fields.

Note2: Length dependant on optional fields.

Note3: Requested PDP Address.

Note4: Optional fields.

# Expected Sequence 1.4 (CALL CONTROL on PDP Context Activation – PDP connection triggered by user, UICC sends 90 00)

Step	Direction	Message / Action	Comments
0	$USER \to ME$	Set and configure APN "Test.Gp.rs" in the terminal configuration if required	[see initial conditions]
1	ME → UICC	ENVELOPE CALL CONTROL 1.1.1	For default PDP establishment during ATTACH procedure Same PDP activation parameters used by the ME within the ENVELOPE CALL CONTROL 1.1.1 are used to establish the PDN connection.
2	$UICC \to ME$	90 00	
3	USER → ME	Set and configure APN "Test12.rs" in the terminal configuration if required, and trigger the ME to perform a PS call to Activate PDP Context Request connection	[see initial conditions]
4	$ME \rightarrow UICC$	ENVELOPE CALL CONTROL 1.4.1	
5	$UICC \to ME$	90 00	
6	ME → USS/SS	ACTIVATE DEFAULT PDP CONTEXT REQUEST	[The UTRAN parameters are used]
7	$USS/SS \to ME$	ACTIVATE DEFAULT PDP CONTEXT ACCEPT	
8	ME → USS/SS	The PDP connection is established successfully without modification	Same PDP activation parameters used by the ME within the ENVELOPE CALL CONTROL 1.4.1 are used to establish the PDN connection

#### **ENVELOPE CALL CONTROL 1.4.1**

#### Logically:

Device identities

Source device: ME
Destination device: UICC

PS PDP connection activation parameters

Protocol Discriminator: GPRS session management messages

Transaction Identifier: 0

Request PDP context activation message identity: Activate PDP context request

Requested NSAPI: NSAPI 5
Requested LLC SAPI: SAPI 3

Requested QoS: Subscribed QoS parameter

Requested PDP address:

PDP type organisation: as declared by the ME
PDP type: as declared by the ME
Address: as declared by the ME

Access Point Name: 06 54 65 73 74 31 32 02 72 73 ("Test12.rs")

Other Protocol configuration options:

Protocol config. options contents: not checked

**Location Information** 

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 6

Coding:

BER-TLV	D4	Note1	02	02	82	81	52	Note2	0A	41	05	03
	0E	00	00	00	00	00	00	00	00	00	00	00
	00	00	00	Note3	28	0A	06	54	65	73	74	31
	32	02	72	73	Note4	13	Note5	00	F1	10	00	01
	00	01	Note6									

Note1: Length of BER-TLV, dependant on optional fields.

Note2: Length of PDP context activation parameters, dependant on optional fields.

Note3: Requested PDP address.

Note4: Optional fields.

Note5: Depending on the presence of the Extended Cell Identity Value the length is '07' or '09'

Note6: 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 1.5 (CALL CONTROL on PDP Context Activation – PDP connection triggered by user, UICC sends 93 00)

Step	Direction	Message / Action	Comments
0	$USER \to ME$	Set and configure APN "Test.Gp.rs" in the terminal configuration if required	[see initial conditions]
1	ME → UICC	ENVĚLOPE CALL CONTROL 1.1.1	For default PDP establishment during ATTACH procedure. Same EPS PDN activation parameters used by the ME within the ENVELOPE CALL CONTROL 1.1.1 are used to establish the PDN connection.
2 3	$\begin{array}{c} UICC \to ME \\ USER \to ME \end{array}$	90 00 Set and configure APN "Test12.rs" in the terminal configuration if required, and trigger the ME to perform a PS call to Activate PDP Context Request connection	[see initial conditions]
4	ME → UICC	ENVELOPE CALL CONTROL 1.4.1	
5	$UICC \to ME$	93 00	The ME may retry to send the command.
6	ME → USS/SS	The ME shall not send the Activate PDP Context Request message.	

# Expected Sequence 1.6 (CALL CONTROL on PDP Context Activation – PDP connection triggered by user, allowed with modification)

Step	Direction	Message / Action	Comments
0	USER → ME	Set and configure APN "TestGp.rs" in the terminal configuration if required	[see initial conditions]
1	ME → UICC	ENVELOPE CALL CONTROL 1.1.1	For default PDP establishment during ATTACH procedure Same PDP parameters used by the ME within the ENVELOPE CALL CONTROL 1.1.1 are used to establish the PDP connection.
2	UICC → ME	90 00	
3	USER → ME	Set and configure APN "Test12.rs" in the terminal configuration if required, and trigger the ME to perform a PS call to Activate PDP Context Request connection.	[see initial conditions]
4	ME → UICC	ENVELOPE CALL CONTROL 1.4.1	
5	UICC → ME	CALL CONTROL RESULT 1.6.1	[Call control result: "Allowed with modifications", ]
6	ME → USS/SS	ACTIVATE PDP CONTEXT REQUEST	[The UTRAN parameters are used]
7	$USS/SS \to ME$	ACTIVATE PDP CONTEXT ACCEPT	
8	ME → USS/SS	The PDP connection is established successfully with modification	Same PDP parameters returned by the UICC within the CALL CONTROL RESULT 1.6.1 are used to establish the PDP connection.

#### CALL CONTROL RESULT 1.6.1

Logically:

Call control result: '02' = Allowed with modifications

Address:

PDP Context Activation parameters

Protocol Discriminator: GPRS session management messages

Transaction Identifier: 0

Request PDP context activation message identity: Activate PDP context request

Requested NSAPI: NSAPI 5
Requested LLC SAPI: SAPI 3

Requested QoS: Subscribed QoS parameters

Requested PDP address:

PDP type organisation: as declared by the ME
PDP type: as declared by the ME
Address: as declared by the ME

Access point name: 06 54 65 73 74 31 33 02 72 73 ("Test13.rs")

Coding:

BER-TLV:	02	Note1	52	Note2	0A	41	05	03	0E	00	00
	00	00	00	00	00	00	00	00	00	00	00
	00	Note3	28	0A	06	54	65	73	74	31	33
	02	72	73	Note4						•	

Note1: Length of BER-TLV, dependant on optional fields.

Note2: Length dependant on optional fields.

Note3: Requested PDP address.

Note4: Optional fields.

#### Expected Sequence 1.7 (CALL CONTROL on PDP Context Activation - PDP connection activation from OPEN CHANNEL command)

Step	Direction	Message / Action	Comments
0	USER → ME	Set and configure APN "TestGp.rs" in the terminal configuration if required	[see initial conditions]
1	$UICC \to ME$	PROACTIVE COMMAND PENDING: OPEN CHANNEL 1.1.1	
2	$ME \rightarrow UICC$	FETCH	
3	$UICC \to ME$	PROACTIVE COMMAND : OPEN CHANNEL 1.1.1	
4	$ME \rightarrow USER$	The ME may display channel opening information	
5	ME → UICC	ENVELOPE CALL CONTROL 1.4.1	
6	UICC → ME	90 00	
7	$ME \rightarrow USS/SS$	ACTIVATE DEFAULT PDP CONTEXT REQUEST	[The UTRAN parameters are used]
8	$USS/SS \to ME$		
9	ME → UICC	TERMINAL RESPONSE : OPEN CHANNEL 1.1.1A OR TERMINAL RESPONSE : OPEN CHANNEL 1.1.1B	[Command performed successfully OR Command performed with modifications]
10	ME → USS/SS	The PDP connection is established successfully without modification	Same PDP parameters used by the ME within the ENVELOPE CALL CONTROL 1.4.1 are used to establish the PDP connection.

PROACTIVE COMMAND: OPEN CHANNEL 1.1.1

Logically:

Command details

Command number:

OPEN CHANNEL

Command type:
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 1.1.1A

#### Logically:

Command details

Command number:

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: IP (Internet Protocol, IETF STD 5)

Precedence Class: 03
Delay Class: 04
Reliability Class: 02
Peak throughput class: 09
Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

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

TERMINAL RESPONSE: OPEN CHANNEL 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 with modifications

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

Bearer description

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

Bearer parameter: IP (Internet Protocol, IETF STD 5)

Precedence Class: 03
Delay Class: 04
Reliability Class: 02
Peak throughput class: 09
Mean throughput class: 31

Packet data protocol: 02 (IP)

Buffer

Buffer size: 1400

Coding:

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

#### 27.22.11.5 Test requirement

The ME shall operate in the manner defined in expected sequences 1.1 to 1.7.

### 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  $EF_{PLMN}$  shall be FF FF ... FF (logically: Empty).

## Annex B (normative): Details of terminal profile support

**Table E.1: TERMINAL PROFILE support** 

Itom	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
1	1.1	Profile Download	TS 31.111 §5.2	R99	M	Support	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	TS 31.111 §5.2	R99	C279		PD_CB
	1.0	download	10 01.111 30.2	1100	0270		1 5_05
4	1.4	Menu selection	TS 31.111 §5.2	R99	C267		PD_Menu_sel
			0-		AND		
					C268		
5	1.5	Bit =1 if SMS-PP data	TS 31.111 §5.2	R99	C279		PD_SMS_PP
		Download supported					
6	1.6	Timer expiration	TS 31.111 §5.	R99	М		PD_TExpir
7	1.7	Bit=1 if Call control	TS 31.111 §5.2.	R99	C304		PD_CC
		supported			AND		
8	1.8	Bit=1 if Call control	TS 31.111 §5.2	DOO	C279 C304		PD_CC
0	1.0	supported	15 31.111 95.2	R99	AND		PD_CC
		Supported			C279		
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	C304		PD_CC
				1.00	AND		. 5_00
					C279		
11	2.3	Bit=1 if Call control	TS 31.111 §5.2	R99	C304		PD_CC
		supported			AND		
					C279		
12	2.4	MO short message control	TS 31.111 §5.2	R99	C279		PD_MO_SMS_CC
40	0.5	by USIM	TO 04 444 05 0	Boo	0004		DD 00
13	2.5	Bit=1 if Call control	TS 31.111 §5.2	R99	C304		PD_CC
		supported			AND C279		
14	2.6	UCS2 Entry supported	TS 31.111 §5.2	R99	C273		PD_UCS2_entry
'-	2.0	Supported	10 31.111 33.2	133	AND		D_0002_entry
					C268		
15	2.7	UCS2 Display supported	TS 31.111 §5.2	R99	C204		PD_UCS2_Display
		. ,			AND		,
					C267		
16	2.8	Bit=1 if Display Text	TS 31.111 §5.2	R99	C267		PD_Display_Text
		supported			0000		
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 AND		PD_Get_Inkey
					C268		
19	3.3	GET INPUT	TS 31.111 §5.2	R99	C267		PD_Get_Input
10	0.0	021 1141 01	10 01.111 30.2	1100	AND		D_Got_input
					C268		
20	3.4	MORE TIME	TS 31.111 §5.2	R99	М		PD_More_Time
21	3.5	PLAY TONE	TS 31.111 §5.2	R99	C269		PD_Play_Tone
			TS 11.14, 5				•
22	3.6	POLL INTERVAL	TS 31.111 §5.2	R99	М		PD_Poll_interval
		2011 100 0 2 2 2	TS 11.14, 5				DD D !!! 6."
23	3.7	POLLING OFF	TS 31.111 §5.2	R99	M	1	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		PD_Select_Item
					AND C268		
26	4.2	SEND SHORT MESSAGE	TS 31.111 §5.2	R99	C208		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
29	4.5	SET UP CALL	TS 31.111 §5.2	R99	C291		PD_SetUp_Call
30	4.6	SET UP MENU	TS 31.111 §5.2	R99	C267	1	PD_SetUp_Menu
		· · · · · · ·			AND		_ = F
					C268		
31	4.7	PROVIDE LOCAL	TS 31.111 §5.2	R99	М		PD_Provide_Local
		INFORMATION (LOCI &					
		IMEI)					
32	4.8	PROVIDE LOCAL	TS 31.111 §5.2	R99	C279		PD_Provide_Local_N
		INFORMATION (NMR)					MR

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
33	5.1	SET UP EVENT LIST	TS 31.111 §5.2	R99	M	Support	PD_Setup_Evt_List
34	5.2	Event: MT call	TS 31.111 §5.2	R99	C270		PD_MT_Call
0.	0.2	Event. Wir ean	10 01.111 30.2	1100	AND		D_WT_Gaii
					C279		
35	5.3	Event: Call connected	TS 31.111 §5.2	R99	C270		PD_Call_Conn
					AND		
					C279		
36	5.4	Event: Call disconnected	TS 31.111 §5.2	R99	C270		PD_Call_Disc
					AND		
07			TO 04 444 05 0	Doo	C279		DD 1 0/ /
37	5.5	Event: Location status	TS 31.111 §5.2	R99	M		PD_Loc_Status
38	5.6	Event: User activity Event: Idle screen	TS 31.111 §5.2	R99	C268		PD_User_Act
39	5.7	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	TS 31.111 §5.2	R99	C212		PD_Browser_Term
12	0.2	Termination	10 01.111 30.2	1100	AND		B_Blowool_Tollii
					C267		
					AND		
					C268		
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	TS 31.111 §5.2	Rel-4	М		PD_Evt_ATC
		Change			0010		22.21
46	6.6	Event: Display Parameters	TS 31.111 §5.2	Rel-4	C218		PD_Disp_Resiz
		Changed			AND		
47	6.7	Event: Local Connection	TS 31.111 §5.2	Rel-4	C267 C224		PD_Evt_LC
48	6.8	Event: Network Search	TS 31.111 §5.2	Rel-6	M		PD_Evt_NSMC
40	0.0	Mode Change	13 31.111 95.2	Kei-6	IVI		PD_EVI_INSIVIC
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	TS 31.111 §5.2	R99	C206		PD_Get_Rdr_Status
		(Card reader status)					
53	7.5	GET READER STATUS	TS 31.111 §5.2	R99	C208		PD_Get_Rdr_Id
		(Card reader identifier)		_			
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 CEMENT	TS 31.111 §5.2	R99	X		PD_RFU_56
57	8.1	TIMER MANAGEMENT	TS 31.111 §5.2	R99	M		PD_Timer_Mgt_Start _Stop
58	8.2	(start, stop) TIMER MANAGEMENT	TS 31.111 §5.2	R99	M		PD_Timer_Val
36	0.2	(get current value)	13 31.111 93.2	N99	IVI		FD_IIIIIeI_vai
59	8.3	PROVIDE LOCAL	TS 31.111 §5.2	R99	М		PD_Provide_Local_D
	0.0	INFORMATION (date, time		1100			Time
		and time zone)					_
60	8.4	Bit=1 if Get Inkey	TS 31.111 §5.2	R99	C268		PD_Get_Inkey
61	8.5	SET UP IDLE MODE	TS 31.111 §5.2	R99	C267		PD_Stup_Id_Mod_Tx
		TEXT					t
62	8.6	RUN AT COMMAND (i.e.	TS 31.111 §5.2	R99	C209		PD_Run_AT
		class "b" is supported)					
63	8.7	Bit=1 if Set UpCall	TS 31.111 §5.2	R99	C267		PD_SetUp_Call
					AND		
					C268		
					AND C270		
64	8.8	Bit=1 if Call Control	TS 31.111 §5.2	R99	C270	<u> </u>	PD_CC
04	0.0	Dit- i ii Odii OoniiiOi	30.2	1133	AND		. 5_00
					C279		
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		PD_Send_DTMF
			J		AND		
					C279		

Item	Byte.bit	Terminal Profile	Ref.		Release	Status	Support	Mnemonic
67	9.3	Bit = 1 if Provide Local	TS 31.111 §	55.2	R99	C279	Сарроп	PD_Provide_Local
0.	0.0	Information (NMR)		,0.2	1100	02.0		B_1 101140_20041
		supported						
68	9.4	PROVIDE LOCAL	TS 31.111 §	5.2	R99	C292		PD_Provide_Local_L
		INFORMATION (language)	-					S
69	9.5	PROVIDE LOCAL	TS 31.111 §	5.2	R99	C280		PD_Provide_Local_T
		INFORMATION (Timing						A
		Advance)						
70	9.6	LANGUAGE	TS 31.111 §	5.2	R99	C293		PD_Lang_Notif
71	9.7	NOTIFICATION LAUNCH BROWSER	TS 31.111 §	F 2	R99	C212		PD_Launch_Brws
'	9.7	LAUNCH BROWSER	1331.1118	35.2	K99	AND		PD_Lauricii_biws
						C267		
						AND		
						C268		
72	9.8	PROVIDE LOCAL	TS 31.111 §	5.2	Rel-4	М		PD_Provide_Local_A
		INFORMATION (Access						T
70	40.4	Technology)	TO 04 444 6	\F_0	Doo	0040		DD 0 (1) 0 1 ( )
73	10.1	Soft keys support for SELECT ITEM	TS 31.111 §	35.2	R99	C213		PD_Softkey_Select_I
74	10.2		TS 31.111 §	55.2	R99	C213		rem PD_Softkey_SetUp
' -	10.2	UP MENU	1001.111	30.2	1133	0210		Menu
75	10.3	RFU	TS 31.111 §	5.2	R99	Х		PD_RFU_75
76	10.4	RFU	TS 31.111 §		R99	Х		PD_RFU_76
77	10.5	RFU	TS 31.111 §		R99	Χ		PD_RFU_77
78	10.6	RFU	TS 31.111 §	5.2	R99	Χ		PD_RFU_78
79	10.7	RFU	TS 31.111 §		R99	Χ		PD_RFU_79
80	10.8	RFU	TS 31.111 §		R99	Х		PD_RFU_80
81	11.1	Maximum number of soft	TS 31.111 §	\$5.2	R99	C214		PD_Max_SoftKey
00	11.2	keys available ('FF' = RFU)	TC 24 444 S	` - 0	Doo	0044		DD May Cattley
82	11.2	Maximum number of soft keys available ('FF' = RFU)	TS 31.111 §	35.2	R99	C214		PD_Max_SoftKey
83	11.3	Maximum number of soft	TS 31.111 §	55.2	R99	C214		PD_Max_SoftKey
	1	keys available ('FF' = RFU)		,0.2	1100	0211		D_Max_controy
84	11.4	Maximum number of soft	TS 31.111 §	5.2	R99	C214		PD_Max_SoftKey
		keys available ('FF' = RFU)						
85	11.5	Maximum number of soft	TS 31.111 §	5.2	R99	C214		PD_Max_SoftKey
	44.0	keys available ('FF' = RFU)	TO 04 444 6	`	Doo	0044		DD 14 0 (1)
86	11.6	Maximum number of soft keys available ('FF' = RFU)	TS 31.111 §	35.2	R99	C214		PD_Max_SoftKey
87	11.7		TS 31.111 §	55.2	R99	C214		PD_Max_SoftKey
07	11.7	keys available ('FF' = RFU)	1331.111 §	30.2	1133	0214		D_Wax_Sourcey
88	11.8	Maximum number of soft	TS 31.111 §	5.2	R99	C214		PD_Max_SoftKey
		keys available ('FF' = RFU)		,				,
89	12.1	OPEN CHANNEL	TS 31.111 §		R99	C223		PD_Open_Ch
90	12.2	CLOSE CHANNEL	TS 31.111 §		R99	C223		PD_Close_Ch
91	12.3	RECEIVE DATA	TS 31.111 §		R99	C223		PD_Rx_Data
92	12.4	SEND DATA	TS 31.111 §		R99	C223		PD_Send_Data
93	12.5	GET CHANNEL STATUS	TS 31.111 §		R99	C223		PD_Get_Ch_Status
94 95	12.6	SERVICE SEARCH GET SERVICE	TS 31.111 §		Rel-4	C224 C224		PD_Serv_Search PD_Get_Serv_Info
90	12.7	INFORMATION	1001.1118	კა.∠	Rel-4	UZZ4		FD_G6(_96(A_IUIO
96	12.8	DECLARE SERVICE	TS 31.111 §	55.2	Rel-4	C224		PD_Declare_Serv
97	13.1	CSD supported by ME	TS 31.111 §		R99	C207		PD_CSD
98	13.2	GPRS supported by ME	TS 31.111 §		R99	C222		PD_GPRS
99	13.3	Bluetooth supported by	TS 31.111 §		Rel-4	C225		PD_BT
		terminal						
100	13.4	IrDA Supported by terminal			Rel-4	C226		PD_IrDA
101	13.5	RS232 Supported by	TS 31.111 §	5.2	Rel-4	C227		PD_RS232
100	10.6	terminal	TC 24 444 C	SE 2	Doo	COEZ		DD Nh Channel
102	13.6	Number of channels supported by ME	TS 31.111 §	ვა.∠	R99	C257		PD_Nb_Channel
103	13.7	Number of channels	TS 31.111 §	55.2	R99	C257		PD_Nb_Channel
. 50		supported by ME		,		0_0.		
				I				

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support Mnemonic
104	13.8	Number of channels	TS 31.111 §5.2	R99	C257	PD_Nb_Channel
	10.0	supported by ME		1100	0201	
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_Disp
114	15.2	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274	PD_Nb_Char_Disp
115	15.3	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274	PD_Nb_Char_Disp
116	15.4	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274	PD_Nb_Char_Disp
117	15.5	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274	PD_Nb_Char_Disp
118	15.6	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274	PD_Nb_Char_Disp
119	15.7	Number of characters supported across the ME display	TS 31.111 §5.2	R99	C274	PD_Nb_Char_Disp
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_Disp_Resiz
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
125 126	16.5 16.6	RFU Width reduction when in a	TS 11.14, 5 TS 31.111 §5.2	R96 R99	X C274	PD_RFU_125 PD_Width_Reduc
120	10.0	menu	30.2	1100	0214	D_vvidii_i\educ
127	16.7	Width reduction when in a menu	TS 31.111 §5.2	R99	C274	PD_Width_Reduc
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_Serv erMode
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_S erverMode
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

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
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		C229		PD_Disp_Var_Timeo
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	Х		Reserved
142	18.6	CALL CONTROL on GPRS	TS 31.111 §5		C242		PD_CC_GPRS
143	18.7	PROVIDE LOCAL INFORMATION (IMEISV)	TS 31.111 §5		M		PD_Provide_Local_S V
144	18.8	PROVIDE LOCAL INFORMATION (search mode change)	TS 31.111 §5	.2 Rel-6	M		PD_Provide_Local_S MC
145	19.1	Protocol Version	TS 31.111 §5	.2 R99	Х		Reserved
146	19.2	Protocol Version	TS 31.111 §5	.2 R99	Х		Reserved
147	19.3	Protocol Version	TS 31.111 §5	.2 R99	Х		Reserved
148	19.4	Protocol Version	TS 31.111 §5		Х		Reserved
149	19.5	RFU	TS 31.111 §5	.2 R99	Χ		PD_RFU_149
150	19.6	RFU	TS 31.111 §5	.2 R99	Χ		PD_RFU_150
151	19.7	RFU	TS 31.111 §5		X		PD_RFU_151
152	19.8	RFU	TS 31.111 §5		Х		PD_RFU_152
153	20.1	Reserved by TIA/EIA/IS- 820 [25]	TS 31.111 §5		Х		Reserved
154	20.2	Reserved by TIA/EIA/IS- 820 [25]	TS 31.111 §5		Х		Reserved
155	20.3	Reserved by TIA/EIA/IS- 820 [25]	TS 31.111 §5		Х		Reserved
156	20.4	Reserved by TIA/EIA/IS- 820 [25]	TS 31.111 §5		Х		Reserved
157	20.5	Reserved by TIA/EIA/IS- 820 [25]	TS 31.111 §5		Х		Reserved
158	20.6	Reserved by TIA/EIA/IS- 820 [25]	TS 31.111 §5		Х		Reserved
159	20.7	Reserved by TIA/EIA/IS- 820 [25]	TS 31.111 §5		Х		Reserved
160	20.8	Reserved by TIA/EIA/IS- 820 [25]	TS 31.111 §5		Х		Reserved
161	21.1	WML browser supported	TS 31.111 §5		C233 AND C267		PD_WML
162	21.2		TS 31.111 §5		C234 AND C267		PD_XHTML
163	21.3	HTML browser supported	TS 31.111 §5		C235 AND C267		PD_HTML
164	21.4	CHTML browser supported	TS 31.111 §5	.2 Rel-6	C236 AND C267		PD_CHTML
165	21.5	RFU	TS 31.111 §5		Х		PD_RFU_165
166	21.6	RFU	TS 31.111 §5		Х		PD_RFU_166

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support Mnemonic
167	21.7	RFU	TS 31.111 §5.2	R99	Х	PD_RFU_167
168	21.8	RFU	TS 31.111 §5.2	R99	Х	PD_RFU_168
169	22.1	Support of UTRAN PS with extended parameters	-	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_B att
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 AND 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_Sta t
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	C294	PD_Refresh_Alphald entifier
181	23.5	Geographical Location Reporting (if class "n" is supported)	TS 31.111 §5.2	Rel-8	C265	PD_Geo_Loaction_R eporting
182	23.6	Reserved for 3GPP2: PROVIDE LOCAL INFORMATION (MEID)	TS 31.111 §5.2	Rel-6	Х	Reserved
183	23.7	PROVIDE LOCAL INFORMATION (NMR (UTRAN/E-UTRAN))	TS 31.111 §5.2	Rel-6	C278	PD_Provide_Local_N MR
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
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	Х	PD_RFU_190
191	24.7	RFU	TS 31.111 §5.2	R99	Х	PD_RFU_191
192	24.8	RFU	TS 31.111 §5.2	R99	Х	PD_RFU_192

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
193	25.1	Event: browsing status	TS 31.111 §5.2	Rel-6	C212		PD_Browser_Stat
					AND		
					C267		
					AND		
					C268		
194	25.2	Event: MMS Transfer	TS 31.111 §5.2	Rel-6	C238		PD_MMS
		status (if class "j" is					
		supported)					
195	25.3	Event Frame parameters	TS 31.111 §5.2	Rel-6	C237		PD_Event_Frames
		changed (if class "i"					
400	05.4	supported)	TO 04 444 0F 0	5.1-	0000		DD DELLE
196	25.4	Event: I-WLAN Access	TS 31.111 §5.2	Rel-7	C260		PD_RFU_Event_I-
		status (if class "e" is					WLAN
197	25.5	supported) Event: Network Rejection	TS 31.111 §5.2	Rel-8	C279		PD_Event_NW_Reje
197	25.5	Event. Network Rejection	13 31.111 95.2	Kei-o	6279		ction
198	25.6	Reserved by ETSI	TS 31.111 §5.2	Rel-7	0		PD_Reserved
199	25.7	Event: Network Rejection	TS 31.111 §5.2	Rel-8	C283		PD_
199	25.1	for E-UTRAN	10 31.111 93.2	1.61-0	0203		Event_NW_Rejection
		IOI L-OTIVAIN					_E_UTRAN
200	25.8	Multiple access	TS 31.111 §5.2	Rel-8	0		PD_Multiple_ACT
	0.0	technologies supported in	. 5 5	1.0.0			manapio_/101
		Event Access Technology					
		Change and Provide Local					
		Information					
201	26.1	Event : CSG Cell Selection	TS 31.111 §5.2	Rel-9	C281		PD_Event_CSG_Cell
		(if class "q" is supported)					_Selection
202	26.2	Reserved by ETSI	TS 31.111 §5.2	Rel-9	0		PD_Reserved
203	26.3	RFU	TS 31.111 §5.2	Rel-6	Х		PD_RFU_203
204	26.4	RFU	TS 31.111 §5.2	Rel-6	Х		PD_RFU_204
205	26.5	RFU	TS 31.111 §5.2	Rel-6	Х		PD_RFU_205
206	26.6	RFU	TS 31.111 §5.2	Rel-6	Х		PD_RFU_206
207	26.7	RFU	TS 31.111 §5.2	Rel-6	Х		PD_RFU_207
208	26.8	RFU	TS 31.111 §5.2	Rel-6	Х		PD_RFU_208
209	27.1	RFU	TS 31.111 §5.2	Rel-6	Х		PD_RFU_209
210	27.2	RFU	TS 31.111 §5.2	Rel-6	Χ		PD_RFU_210
211	27.3	RFU	TS 31.111 §5.2	Rel-6	Χ		PD_RFU_211
212	27.4	RFU	TS 31.111 §5.2	Rel-6	Χ		PD_RFU_212
213	27.5	RFU	TS 31.111 §5.2	Rel-6	Х		PD_RFU_213
214	27.6	RFU	TS 31.111 §5.2	Rel-6	Х		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	Х		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	TS 31.111 §5.2	Rel-5	C244		PD_Text_Attrib_Cent
		supported					er
219	28.3	Alignment right supported	TS 31.111 §5.2	Rel-5	C245		PD_Text_Attrib_Righ
000	00.4		TO 04 444 05 0	D 15	0040		t . Au II Al
220	28.4	Font size normal supported	18 31.111 §5.2	Rel-5	C246		PD_Text_Attrib_Nor
004	00.5	F4 -:	TO 04 444 SE 0	D-1.5	0047		mal
221	28.5	Font size large supported	TS 31.111 §5.2	Rel-5	C247		PD_Text_Attrib_Larg
222	20.0	Fant sine areall assessments d	TC 04 444 SE 0	Dale	0040		DD Tout Attails Casel
222	28.6	Font size small supported	TS 31.111 §5.2	Rel-5	C248		PD_Text_Attrib_Smal
223	28.7	RFU	TS 31.111 §5.2	Rel-6	Х		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_
223	20.1		1.0 01.111 30.2	1.61-3	0273		Norm
226	29.2	Style bold supported	TS 31.111 §5.2	Rel-5	C250		PD_Text_Attrib_Styl_
		2.7.0 20.0 oupported	. 5 5	1	5250		Bold
227	29.3	Style italic supported	TS 31.111 §5.2	Rel-5	C251		PD_Text_Attrib_Styl_
							Italic
228	29.4	Style underlined supported	TS 31.111 §5.2	Rel-5	C252		PD_Text_Attrib_Styl_
1		, , , , , , , , , , , , , , , , , , , ,	3				Underl
229	29.5	Style strikethrough	TS 31.111 §5.2	Rel-5	C253		PD_Text_Attrib_Styl_
		supported					Strik
-							

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
230	29.6	Style text foreground	TS 31.111 §5.2	Rel-5	C254		PD_Text_Attrib_Styl_
		colour supported	_				Text_Fore
231	29.7	Style text background	TS 31.111 §5.2	Rel-5	C255		PD_Text_Attrib_Styl_
		colour supported					Text_Back
232	29.8	RFU	TS 31.111 §5.2	Rel-6	Χ		PD_RFU_224
233	30.1	I-WLAN bearer support (if	TS 31.111 §5.2	Rel-7	C260		PD_I-WLAN
		class "e" is supported)					
234	30.2	Proactive UICC: PROVIDE	TS 31.111 §5.2	Rel-7	C260		PD_Provide_Local_
		LOCAL INFORMATION					WSID_WLAN
		(WSID of the current I-					
		WLAN connection)			2221		
235	30.3	TERMINAL	TS 31.111 §5.2	Rel-7	C261		PD_Terminal_Applic
		APPLICATIONS (i.e. class					ations
000	00.4	"k" is supported)	TO 04 444 SE 0	D-1.7	N 4		DD Otassias Of Da
236	30.4	"Steering of Roaming" REFRESH support	TS 31.111 §5.2	Rel-7	M		PD_Steering_Of_Ro aming
227	20 F	• • • • • • • • • • • • • • • • • • • •	TC 24 444 SE 2	Rel-7	0		- U
237	30.5	Reserved by ETSI	TS 31.111 §5.2		_		PD_Reserved
238	30.6	Proactive UICC:	TS 31.111 §5.2	Rel-8	C265		PD_Geo_Loaction_R
		Geographical Location Request (if class "n" is					equest
		supported)					
239	30.7	Reserved by ETSI	TS 31.111 §5.2	Rel-8	0		PD_Reserved
240	30.8	"Steering of Roaming for I-	•	Rel-8	C260		
240	30.6	WLAN" REFRESH support	TS 31.111 §5.2	Kei-o	C200		PD_Steering_Of_Ro aming I-WLAN
244	24.4		TC 24 444 SE 2	Dalo	0		0 =
241	31.1	Reserved by ETSI	TS 31.111 §5.2	Rel-9	0		PD_Reserved

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
242	31.2	Support of CSG cell	TS 31.111 §5.2	Rel-9	C282		PS_CSG_Cell_Disco
		discovery (if class "q" is					very
0.40	24.2	supported)	TO 24 444 SE 2	Dalo	C20F		DD Ones Channel
243	31.3	Confirmation parameters supported for OPEN	TS 31.111 §5.2	Rel-9	C285		PD_Open_Channel_ Conf_Parameters
		CHANNEL					
		in Terminal Server Mode					
244	31.4		TS 31.111 §5.2	Rel-10	C286		PD_IMS_COMMUNI
0.45	24.5	IMS	TO 24 444 SE 2	Del 40	C007		CATION_CONTROL
245	31.5	Support of CAT over the modem interface (if class	TS 31.111 §5.2	Rel-10	C287		PD_CAT_Modem_Int erface
		"s" is supported)					Citado
246	31.6	Support for Incoming IMS	TS 31.111 §5.2	Rel-10	C288		PD_Incoming_IMS_D
		Data event (if classes "e"					ata_Event
247	31.7	and "t" are supported) Support for IMS	TS 31.111 §5.2	Rel-10	C289		PD_IMS_Reg_Event
247	31.7	Registration event (if	13 31.111 93.2	Kei-10	C209		PD_IIVIS_Reg_Everit
		classes "e" and "t" are					
		supported)					
248	31.8	Reserved by ETSI	TS 31.111 §5.2	Rel-10	0		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	PROVIDE LOCATION	TS 31.111 §5.2	Rel-11	Х		PD PLI HENB IP A
200	02.2	INFORMATION, H(e)NB IP	10 01.111 30.2	110111	Α		dress_support
		address support (if class					
		"v" is supported))					
251	32.3	PROVIDE LOCATION INFORMATION, H(e)NB	TS 31.111 §5.2	Rel-11	Х		PD_PLI_HENB_surro
		surrounding macrocells					unding_Macrocell
		support (if class "w" is					
		supported)					
252	32.4	Reserved by ETSI	TS 31.111 §5.2	Rel-11	0		PD_Reserved
253	32.5	Reserved by ETSI	TS 31.111 §5.2	Rel-11	0		PD_Reserved
254 255	32.6 32.7	Reserved by ETSI Reserved by ETSI	TS 31.111 §5.2 TS 31.111 §5.2	Rel-11 Rel-11	0		PD_Reserved PD_Reserved
256	32.8	Reserved by ETSI	TS 31.111 §5.2	Rel-12	M		PD_Neserved
	02.0	(Support of refresh	30.2	110.12			Refresh_Enforcemen
		enforcement policy)					t_Policy
257	33.1	Reserved by ETSI	TS 31.111 §5.2	Rel-12	0		PD_Reserved
258 259	33.2 33.3	Reserved by ETSI	TS 31.111 §5.2 TS 31.111 §5.2	Rel-12 Rel-12	0		PD_Reserved PD_Reserved
260	33.4	Reserved by ETSI ProSe usage information	TS 31.111 §5.2	Rel-12 Rel-12	C295		PD_Reserved PD_ProSE
200	33.4	reporting (used only if	10 01.111 80.2	INGI-12	0233		D_1 100L
		class "e" is supported)					
261	33.5	Reserved by ETSI	TS 31.111 §5.2	Rel-12	0		PD_Reserved
262	33.6	Event: WLAN Access	TS 31.111 §5.2	Rel-13	C296		PD_WLAN_Access_
		status (if class "e" is supported)					St
263	33.7	WLAN bearer support (if	TS 31.111 §5.2	Rel-13	C297		PD_WLAN_Bearer
		class "e" is supported)					
264	33.8	Proactive UICC: PROVIDE	TS 31.111 §5.2	Rel-13	C298		PD_
		LOCAL INFORMATION					Provide_Local_WLA
		(WLAN identifier of the current WLAN connection)					N_ID
265	34.1	URI support for SEND	TS 31.111 §5.2	Rel-13	C299		PD_URI_Send_Short
	J	SHORT MESSAGE	. 5 5 11 80.2	1.0.70	0200		_IMS
266	34.2	IMS URI supported for	TS 31.111 §5.2	Rel-13	C300		PD_IMS_URI_Setup
0.5=	0.4.5	SET UP CALL	<b>TO</b> 04 44: 07 5	D 1 12	000		_call
267	34.3	Media Type "Voice"	TS 31.111 §5.2	Rel-13	C301		PD_Voice_Media_
		supported for SET UP CALL and Call Control by					USIM
		USIM					

Item	Byte.bit	Terminal Profile	Ref.	Release	Status	Support	Mnemonic
268	34.4	Media Type "Video"	TS 31.111 §5.2	Rel-13	C302		PD_Video_Media_U
		supported for SET UP					SIM
		CALL and Call Control by					
		USIM					
269	34.5	Proactive UICC: PROVIDE	TS 31.111 §5.2	Rel-13	C303		PD_
		LOCAL INFORMATION					Provide_Local_EUTR
		(E-UTRAN Timing					AN_TA
		Advance Information)					
270	34.6	Reserved by ETSI	TS 31.111 §5.2	Rel-13	0		PD_Reserved
271	34.7	Reserved by ETSI	TS 31.111 §5.2	Rel-13	0		PD_Reserved
272	34.8	Reserved by ETSI	TS 31.111 §5.2	Rel-13	0		PD_Reserved

1		
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_Disp
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 À.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
C217	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 (A1.26 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 (A1.26 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 O_BIP_RS232
C228	IF ((A1./50 OR A.1/51 OR A.1/52 OR A.1/53 OR A.1/54 OR A.1/55 OR A.1/56 OR A.1/57 OR A.1/58 OR A.1/59 OR A.1/60 OR A.1/61 OR A.1/62) AND A.1/84) THEN M ELSE O.1	(O_TAT_AL OR O_TAT_AC OR O_TAT_AR OR O_TAT_FSN OR O_TAT_FSL OR O_TAT_FSS OR O_TAT_SN OR O_TAT_SB OR O_TAT_SI OR O_TAT_SU OR O_TAT_SS OR O_TAT_STFC OR O_TAT_STFB) AND O_No_Type_ND
C229	IF (A.1/24 AND A.1/84) THEN M ELSE O.1	O_Duration AND O_No_Type_ND
C230	Void	Void
C231	IF (C229 OR (A.1/23 AND A.1/85)) AND A1.5 THEN M ELSE O.1	O_Help AND ((O_Duration AND O_No_Type_ND) OR (O_Imm_Resp AND 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 MIELSE O	O_IVIVIS
C240	IF A.1/35 THEN M ELSE O.1  IF (A.1/36 AND A.1/84 AND A.1/85 AND A.1/87)  THEN M ELSE O.1	O_Batt O_Xmedia Call AND O_No_Type_ND AND O_No_Type_NK AND O_No_Type_NS

F (A.1/82 AND A.1/84) THEN M ELSE O.1			
F(A.1/16 AND A.1/84) THEN M ELSE O.1	C241	IF (A.1/82 AND A.1/86) THEN M ELSE O.1	
C243    F (A.1/50 AND A.1/84) THEN M ELSE O.1	C242	IF (Δ 1/16 ΔΝD Δ 1/8/1) THEN M ELSE O 1	
C243         IF (A.1/50 AND A.1/84) THEN M ELSE O.1         - O_TAT_AL AND O_NO_Type_ND           C244         IF (A.1/51 AND A.1/84) THEN M ELSE O.1         - O_TAT_AC AND O_NO_Type_ND           C245         IF (A.1/52 AND A.1/84) THEN M ELSE O.1         - O_TAT_AR AND O_NO_Type_ND           C246         IF (A.1/53 AND A.1/84) THEN M ELSE O.1         - O_TAT_AR AND O_NO_Type_ND           C246         IF (A.1/54 AND A.1/84) THEN M ELSE O.1         - O_TAT_FSI AND O_NO_Type_ND           C247         IF (A.1/54 AND A.1/84) THEN M ELSE O.1         - O_TAT_FSI AND O_NO_Type_ND           C248         IF (A.1/55 AND A.1/84) THEN M ELSE O.1         - O_TAT_FSI AND O_NO_Type_ND           C249         IF (A.1/56 AND A.1/84) THEN M ELSE O.1         - O_TAT_SI AND O_NO_Type_ND           C250         IF (A.1/57 AND A.1/84) THEN M ELSE O.1         - O_TAT_SI AND O_NO_Type_ND           C251         IF (A.1/59 AND A.1/84) THEN M ELSE O.1         - O_TAT_SI AND O_NO_Type_ND           C252         IF (A.1/60 AND A.1/84) THEN M ELSE O.1         - O_TAT_SI AND O_NO_Type_ND           C253         IF (A.1/60 AND A.1/84) THEN M ELSE O.1         - O_TAT_SI AND O_NO_Type_ND           C254         IF (A.1/61 AND A.1/84) THEN M ELSE O.1         - O_TAT_SI AND O_NO_Type_ND           C255         IF (A.1/62 AND A.1/84) THEN M ELSE O.1         - O_TAT_SI AND O_NO_Type_ND           C256         IF (A.1/6	0242	II (A.1/10 AND A.1/04) THEN WEEDE O.1	
C244	C243	IF (A 1/50 AND A 1/84) THEN M FLSE O 1	
F. (A.1/51 AND A.1/84) THEN M ELSE O.1	0210	(	
C245	C244	IF (A.1/51 AND A.1/84) THEN M ELSE O.1	
C246		,	
F (A.1/53 AND A.1/84) THEN M ELSE O.1	C245	IF (A.1/52 AND A.1/84) THEN M ELSE O.1	
C.247			
F (A.1/54 AND A.1/84) THEN M ELSE O.1	C246	IF (A.1/53 AND A.1/84) THEN M ELSE O.1	
C.248	C247	IE (A 1/64 AND A 1/94) THEN MELSE O 1	
C248	G247	IF (A. 1/34 AND A. 1/04) THEN WELSE O. I	
C249	C248	IF (A 1/55 AND A 1/84) THEN M FLSE O 1	
C249	0210	(	
F (A.1/57 AND A.1/84) THEN M ELSE O.1	C249	IF (A.1/56 AND A.1/84) THEN M ELSE O.1	
C251			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_NE           C252         IF (A.1/59 AND A.1/84) THEN M ELSE O.1         - O_TAT_SU AND           C253         IF (A.1/60 AND A.1/84) THEN M ELSE O.1         - O_TAT_SS AND           C254         IF (A.1/61 AND A.1/84) THEN M ELSE O.1         - O_TAT_STFC AND           C255         IF (A.1/62 AND A.1/84) THEN M ELSE O.1         - O_TAT_STFC AND           C256         IF (CA.1/62 AND A.1/84) THEN M ELSE O.1         - O_TAT_STFC AND           C257         IF (A.1/22 OR A.1/21 OR A.1/132 OR A.1/133 OR A.1/133 OR A.1/148 OR (A.1/28 OR A.1/29 OR A.1/29 OR A.1/30))) THEN M for at least one of the bits 1 - 4 of byte 24         - O_BIP_CSD OR O_BIP_GPRS           C257         IF (A.1/12 OR A.1/21 OR A.1/132 OR A.1/133 OR A.1/28 OR A.1/148 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 D.1/26	C250	IF (A.1/57 AND A.1/84) THEN M ELSE O.1	
Fair Comment   Fair			
C253   IF (A.1/60 AND A.1/84) THEN M ELSE O.1			
Factor   Factor	C252	(A.1/59 AND A.1/84) THEN M ELSE O.1	
C254 IF (A.1/61 AND A.1/84) THEN M ELSE O.1	C253	IE (A 1/60 AND A 1/84) THEN MELSE O 1	
C254	0255	IF (A.1/00 AND A.1/04) THEN WEESE O.1	
C. No. Type. ND	C254	IF (A 1/61 AND A 1/84) THEN M FLSE O 1	
F. (A.1/62 AND A.1/84) THEN M ELSE O.1	0_0 .		
C256	C255	IF (A.1/62 AND A.1/84) THEN M ELSE O.1	
Dyte 24			
Fa.1/12 OR A.1/21 OR A.1/132 OR A.1/133 OR A.1/133 OR A.1/148 OR A.1/148 OR A.1/26 AND (A.1/27 OR A.1/28 OR A.1/29 OR A.1/29 OR A.1/30)) THEN M for at least one of the bits 6 - 8 of byte 13	C256		O_Frames AND O_No_Type_ND
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	0057		0.000.000.000.0000
A.1/29 OR A.1/30))) THEN M for at least one of the bits 6 - 8 of byte 13	C257		
Dits 6 - 8 of byte 13			
COUNTY   C			
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.1/81 THEN M ELSE O.1         O_UDP_Terminal_ServerMode           C265         IF A.1/81 THEN M ELSE O.1         O_UDP_Terminal_ServerMode           C266         IF A.1/83 THEN M ELSE O.1         O_DEO_Location_Discovery           C266         IF A.1/81 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_NS           C270         IF A.1/87 THEN M ELSE O.1         O_No_Type_NS           C271         IF (A.1/87 THEN M ELSE O.1         O_No_Type_ND           C272         IF A.1/84 THEN M ELSE O.1         O_No_Type_ND           C273         IF A.1/84 THEN O.1 ELSE M         O_No_Type_ND			
C259			
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_UDP_Terminal_ServerMode           C266         IF A.1/83 THEN M ELSE O.1         O_UDP_Terminal_ServerMode           C267         IF A.1/83 THEN M ELSE O.1         O_UDP_Terminal_ServerMode           C268         IF A.1/83 THEN M ELSE O.1         O_Toolkit_GBA           C269         IF A.1/84 THEN M ELSE O.1         O_No_Type_ND           C269         IF A.1/85 THEN M ELSE O.1         O_No_Type_NK           C270         IF A.1/87 THEN M ELSE O.1         O_No_Type_NL           C271         IF (A.1/88 AND A.1/161) THEN M ELSE O.1         O_No_Type_NL           C272         IF A.1/84 THEN MELSE O.1         O_No_Type_ND           C273         IF A.1/84 THEN bit values "0" / "1" allowed ELSE O.1         O_No_Type_ND           C274         IF A.1/84 THEN O.1 ELSE M         O_No_Type_ND           C276         IF A.1/84			
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_UDP_Terminal_ServerMode           C266         IF A.1/81 THEN M ELSE O.1         O_Toolkit_GBA           C267         IF A.1/83 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 AND A.1/161) THEN M ELSE O.1         O_No_Type_NL AND O_Lang_Select           C272         IF A.1/84 THEN MELSE O.1         O_No_Type_ND           C273         IF A.1/84 THEN DISTECT         O_NO_Type_ND           C274         IF A.1/84 THEN DISTECT         O_NO_Type_ND           C275         IF A.1/84 THEN DISTECT         O_NO_Type_ND           C276         IF A.1/85 THEN O.1 ELSE M         O_NO_Type_ND           C276         IF A.1/85 THEN O.1 ELSE M         O			
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 AND A.1/161) THEN M ELSE O.1         O_No_Type_NL AND O_Lang_Select           C272         IF A.1/84 THEN M ELSE O.1         O_No_Type_ND           C273         IF A.1/84 THEN O ELSE O.1         O_No_Type_ND           C274         IF A.1/84 THEN D BIT Values "0" / "1" allowed ELSE O.1         O_No_Type_ND           C275         IF A.1/84 THEN O.1 ELSE M         O_No_Type_ND           C276         IF A.1/84 THEN O.1 ELSE M         O_No_Type_NK           C277         IF A.1/85 THEN O.1 ELSE M         O_No_Type_NK           C278         IF (			
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_No_Type_ND           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 AND A.1/161) THEN M ELSE O.1         O_No_Type_NL AND O_Lang_Select           C272         IF A.1/89 THEN M ELSE O.1         O_No_Type_ND D           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         D_No_Type_ND           C276         IF A.1/84 THEN O.1 ELSE M         O_No_Type_NK           C277         IF A.1/85 THEN O.1 ELSE M         O_No_Type_NK           C278         IF (A.1/134 OR A.1/139 OR A.1/140) THEN M ELSE         O_NO_Type_NC           C279         <			
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 AND A.1/161) THEN M ELSE O.1         O_No_Type_NL AND O_Lang_Select           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.1/32 OR A.1/133 THEN M ELSE O.1         O_No_Type_ND           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_NC           C278         IF (A.1/134 OR A.1/139 OR A.1/140) THEN M ELSE         O_UTRAN OR pc_eFDD OR pc_eTDD OR pc_eTDD           C279         IF NOT A.1/135 THEN M ELSE O         O_EUTRAN_NO_UTRAN_NO_GERAN			
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 AND A.1/161) THEN M ELSE O.1         O_No_Type_NL AND O_Lang_Select           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.1/84 THEN O.1 ELSE M         O_No_Type_ND           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 OR A.1/139 OR A.1/140) THEN M ELSE         O_UTRAN OR pc_eFDD OR pc_eFDD OR pc_eTDD OR pc_eTDD OR pc_eTDD OR pc_eTDD OR pc_eTDD           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     <			
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 AND A.1/161) THEN M ELSE O.1         O_No_Type_NL AND O_Lang_Select           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         D_EBIP_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 OR A.1/139 OR A.1/140) THEN M ELSE         O_UTRAN OR pc_eFDD OR pc_eFDD OR pc_eTDD           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			
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 AND A.1/161) THEN M ELSE O.1         O_No_Type_NL AND O_Lang_Select           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         D_No_Type_ND           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 OR A.1/139 OR A.1/140) THEN M ELSE O         O_UTRAN OR pc_eFDD OR pc_eTDD OR pc_eTDD           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			
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 AND A.1/161) THEN M ELSE O.1         O_No_Type_NL AND O_Lang_Select           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         D_No_Type_ND           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 OR A.1/139 OR A.1/140) THEN M ELSE O         O_UTRAN OR pc_eFDD OR pc_eTDD OR pc_eTDD           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			
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 AND A.1/161) THEN M ELSE O.1         O_No_Type_NL AND O_Lang_Select           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_eTDE           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 OR A.1/139 OR A.1/140) THEN M ELSE O         O_UTRAN OR pc_eFDD OR pc_eTDD           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			
C271 IF (A.1/88 AND A.1/161) THEN M ELSE O.1 O_No_Type_NL AND O_Lang_Select  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_eTDE  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 OR A.1/139 OR A.1/140) THEN M ELSE O_UTRAN OR pc_eFDD OR  O.1 O_EUTRAN_NO_UTRAN_ NO_GERAN  C280 IF A.1/64 THEN M ELSE O O_GERAN			
O_Lang_Select	C270	IF A.1/87 THEN M ELSE O.1	
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 OR A.1/139 OR A.1/140) THEN M ELSE O         O_UTRAN OR pc_eFDD OR pc_eTDD           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	C271	IF (A.1/88 AND A.1/161) THEN M ELSE O.1	
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 OR A.1/139 OR A.1/140) THEN M ELSE O         O_UTRAN OR pc_eFDD OR pc_eTDD           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	2070		
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 OR A.1/139 OR A.1/140) THEN M ELSE O         O_UTRAN OR pc_eFDD OR pc_eTDD           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			
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 OR A.1/139 OR A.1/140) THEN M ELSE O         O_UTRAN OR pc_eFDD OR pc_eTDD           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			
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 OR A.1/139 OR A.1/140) THEN M ELSE O         O_UTRAN OR pc_eFDD OR pc_eTDD           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			
C277         IF A.1/85 THEN O.1 ELSE M         O_No_Type_NK           C278         IF (A.1/134 OR A.1/139 OR A.1/140) THEN M ELSE O         O_UTRAN OR pc_eFDD OR pc_eTDD           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			
C278 IF (A.1/134 OR A.1/139 OR A.1/140) THEN M ELSE O_UTRAN OR pc_eFDD OR pc_eTDD  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			
O.1         pc_eTDD           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			
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		· ·	
C280 IF A.1/64 THEN M ELSE O O_GERAN	C279		
IC281 IF A.1/136 THEN M.FLSE O.1 L O. Event. CSG. Cell. Selection			
5_1.7.1.7.00 TILLIAN ELGE G.T	C281	IF A.1/136 THEN M ELSE O.1	O_Event_CSG_Cell_Selection

	T. T. T. T. T. T. T. T. T. T. T. T. T. T		
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_TCP_Terminal_ServerMode	
	0.1	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	
C291	IF A.1/84 AND A.1/85 AND A.1/87 AND NOT A.1/135	O_SetUp_Call	
	THEN M ELSE O		
C292	IF A.1/162 THEN M ELSE O.1	O_Provide_Local_LS	
C293	IF (A.1/88 AND A.1/163) THEN M ELSE O.1	O_No_Type_NL AND	
		O_Lang_Notif	
C294	IF (A.1/84 AND A.1/164) THEN M ELSE O.1	O_No_Type_ND AND	
		O_Refresh_Alphaldentifier	
C295	IF (A.1/165) THEN M ELSE O.1	O_ProSE	
C296	IF (A.1/166) THEN M ELSE O.1	O_WLAN_Access_Status	
C297	IF (A.1/167) THEN M ELSE O.1	O_WLAN_Bearer	
C298	IF (A.1/168) THEN M ELSE O.1	O_I-WLAN_OR_WLAN	
C299	IF (A.1/150 AND A. 1/177) THEN M ELSE O.1	O_IMS AND O_SM-over-	
		IP_without_MSISDN	
C300	IF (A.1/150 AND A.1/84 AND A.1/85 AND A.1/87	O_IMS AND O_No_Type_ND	
	AND A.1/178) THEN M ELSE O.1	AND O_No_Type_NK AND	
		O_No_Type_NS AND	
		O_Voice_Call_with_URI	
C301	IF (A.1/169) THEN M ELSE O.1	O_Media_Type_Voice	
C302	IF (A.1/170) THEN M ELSE O.1	O_Media_Type_Video	
C303	IF (A.1/139 OR A.1/140) THEN M ELSE O.1	pc_eFDD OR pc_eTDD	
C304	IF A.1/87 THEN M ELSE O	O_No_Type_NS	
0.1	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	OAI	6.0.0
CP-050144	0001	-	CT-28	Correction of coding in MT Call Event	F	6.1.0
CP-050144		-	CT-28	Correction of applicability table	F	6.1.0
CP-050144		-	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
	0007	-	CT-29	Correction of applicability and terminal profile support tables	F	6.2.0
	8000	-	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
	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
	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	В	6.2.0
	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
	0019	-	CT-29	Missing interactions in Bearer Independent Protocol test cases	F	6.2.0
	0020	-	CT-29	Correction of Refresh tests	F	6.2.0
	0022	-	CT-29	Applicability of TC 27.22.4.7.1 and TCs related to FDN and BDN	F	6.2.0
	0023	-	CT-29	Essential correction to Terminal Profile table E.1	F	6.2.0
	0024	-	CT-29	Correction of CB message identifier	F	6.2.0
	0025 0027	-	CT-29 CT-29	Rel-6: Addition of new UCS2 Tests Incorrect Coding of SMS-PP (Data download) Message in clause	B F	6.2.0 6.2.0
				27.22.4.7.1 and 27.22.5.1		0.0.4
-	-	-	-	2005-10: Editorial corrections due to the CRs approved at CP-29	-	6.2.1
	0028	-	CT-30	Correction of Send SS (UCS2) tests	F	6.3.0
	0029	-	CT-30	Essential Corrections in clause 27.22.4.11	F	6.3.0
	0030	-	CT-30	Corrections to Select Item (icons support) 27.22.7.4.1 Location Status Event (normal)	F	6.3.0 6.3.0
	0031	-	CT-30 CT-30	Essential Corrections of Set Up Menu test	F	6.3.0
	0032	-	CT-30	Correction of applicability table and related addition of missing test	F	6.3.0
CP-050495	0024		CT 20	sequences Correction in SMS-PP 1.4.1 TPDU of clause 27.22.4.22.1	F	6.2.0
	0034 0035	-	CT-30 CT-30	Essential Corrections of SMS-PP download message in Refresh test	F	6.3.0 6.3.0
		_		case		
	0036	-	CT-30	Essential Correction in MO SHORT MESSAGE CONTROL BY USIM Deletion of sequence 1.9	F	6.3.0
CP-050495			CT-30		F	6.3.0
CP-060013		-	CT-31	Deletion of Send Data test sequence	F	6.4.0
CP-060013		-	CT-31	Essential correction of Provide Local Information (IMEI) test	F	6.4.0
CP-060013		-	CT-31	Essential Correction in SEQ 1.8 of clause 27.22.8	F	6.4.0
CP-060013		-	CT-31	Essential correction on 27.22.7.3.1 Call Disconnected Event	F F	6.4.0 6.4.0
CP-060013 CP-060014		<u> </u>	CT-31 CT-31	Essential correction of Channel Data length in clause 27.22.4.30	F	6.4.0
CP-060014		-	CT-31	Essential Corrections in clause 27.22.4.11 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		-	CT-31	Essential corrections to Natr AT Command tests  Essential corrections to SET UP CALL test sequences	F	6.4.0
	0055	-	CT-31	Essential Correction in TERMINAL RESPONSE coding of clause 27.22.4.31	F	6.4.0
CP-060015	0056	<u> </u>	CT-31	Essential corrections to Timer Expiration tests	F	6.4.0
CP-060015		-  -	CT-31	BER-TLV suppressions	F	6.4.0
	0054	-	CT-31	Add SMS PP Data Download RP-ERROR Test Case	В	6.4.0
	0033	-	CT-31	Essential Correction in SEQ 1.7 of clause 27.22.4.13.1	F	6.4.0
	0046	_	CT-31	Essential correction of Refresh test	F.	6.4.0
	0051	-	CT-31	Essential correction of Channel Data length in Result TLV of clause 27.22.4.30	F	6.4.0
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
	0061	-	CT-32	Proposal to the TS 31.124 Split by referencing the relevant USAT Test		6.5.0
				procedures to TS 102 384		

	CR	REV	Meeting	SUBJECT	CAT	NEW_	VERS
05.00	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	
	0064	-	CT-32	Essential corrections on SEND SHORT MESSAGE test cases		6.5.0	
	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		-	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	F	6.6.0	
CP-060389	0001	1	CT-33	procedures to TS 102 384 Correction to the UCS2 coding in Setup Call test	F	6.6.0	
CP-060389		1	CT-33	Essential correction of RUN AT Command for text attribute tests	F	6.6.0	
CP-060389		1	CT-33	Correction of RECEIVE DATA tests	F.	6.6.0	
CP-060389		1	CT-33	Correction of terminology for USIM Service Table	F	6.6.0	
CP-060389		1	CT-33	Correction of 2 <sup>nd</sup> alpha identifier usages in SET UP CALL tests	F	6.6.0	
CP-060389		1	CT-33	Correction of various typographical errors	F	6.6.0	
CP-060389		1	CT-33	Essential corrections to OPEN CHANNEL text attribute test sequences	F	6.6.0	
CP-060389		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	F	6.6.0	
CP-060389	0800	2	CT-33	sequences Essential corrections on test sequences using the TLV data object	F	6.6.0	
CD 000000	0400	0	OT 22	Location Information	_	0.00	
CP-060389		2	CT-33	Essential corrections to SET UP CALL (UCS2 Display) test sequences	F F	6.6.0	
CP-060389		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		2	CT-33	Corrections to SET UP CALL test case 27.22.4.13.1	F	6.6.0	
CP-060475		1	CT-33	Essential corrections to SEND SS concerning longForwardedToNumber	F	6.6.0	
CP-060475		2	CT-33	Corrections to MO SHORT MESSAGE CONTROL BY USIM tests	F	6.6.0	
CP-060517			CT-33	Essential corrections Set Up Call, seq. 1.9	F.	6.6.0	
CP-060540		-	CT-34	Correction of APN Coding in Open Channel test case	F	6.7.0	
CP-060540	0.00	2	CT-34	Essential corrections of BIP entries in table E.1	F	6.7.0	
CP-060540		2	CT-34	Essential correction of Result TLV handling	F	6.7.0	
CP-060540		-	CT-34	Essential correction of expected sequence in OPEN CHANNEL test case	F	6.7.0	
CP-060727		-	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		<u> </u>	CT-34	Correction to SEND SS	F	6.7.0	
CP-060727		1	CT-34	Addition of REFRESH USIM Application Reset	В	6.7.0	
CP-060727		-	CT-34	Essential corrections on SEND SS (UCS2 display) test cases	F	6.7.0	
CP-060727		<u> </u>	CT-34	Essential corrections on REFRESH TC 27.22.4.7.1	F	6.7.0	
CP-060727		1	CT-34	Corrections in the interpretation of Katakana Character	F	6.7.0	
CP-070063		<u> </u>	CT-35	Essential correction of 27.22.5.2	F	6.8.0	
CP-070063		1	CT-35	Essential correction of Zr.22.3.2  Essential correction of Terminal Profile Support table	F.	6.8.0	
CP-070063		1	CT-35	Essential correction of 27.22.4.13.1 Expected Sequence 1.7	F	6.8.0	
CP-070065		Ė	CT-35	Essential correction of 27.22.4.7, seq. 1.7	F	6.8.0	
CP-070065		<b> </b> -	CT-35	Essential correction of TC 27.22.7.4.1	F	6.8.0	
CP-070065		ļ	CT-35	CR implementation error correction for 27.22.6.2 SEQ 2.2	F	6.8.0	
		<b> </b> -	CT-35	CR implementation error correction for 27.22.4.11.1 SEQ 1.4A	F	6.8.0	
CP-070065		1	CT-35	Essential clarification of Network Simulator selection	F	6.8.0	
CP-070065		1	CT-35	Essential correction of 27.22.4.7.2 SEQ 2.2	F	6.8.0	
CP-070065 CP-070065	0122		CT-35	Addition of new expected sequence to the SMS-PP Data Download test	С	6.8.0	
CP-070065		2	C1-35				
CP-070065 CP-070065 CP-070065	0124	2	CT-35	case Addition of a new expected sequence to the SMS-CB Data Download test case	F	6.8.0	
CP-070065 CP-070065 CP-070065 CP-070065	0124 0125			case Addition of a new expected sequence to the SMS-CB Data Download	F	6.8.0	

CP-doc	CR	REV	Meeting	SUBJECT	CAT	NEW VERS
CP-070297		1	CT-36	Essential correction of test case applicability for 27.22.6.1	A	6.9.0
CP-070297		1	CT-36	Essential correction on 27.22.8	A	6.9.0
CP-070297		-	CT-36	Essential correction on 27.22.5.1	F	6.9.0
CP-070297		-	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	Α	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		-	CT-37	Essential correction of references	F	7.1.0
CP-070619		1	CT-37	Essential correction of 27.22.4.13.1, sequence 1.7	F	7.1.0
CP-070619		1	CT-37	Test Cases dependant on Radio Access Clarification	F	7.1.0
CP-070619		-	CT-37	Essential correction of 27.22.4.7.1, sequence 1.6	F	7.1.0
CP-070843		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	Α	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	Α	7.2.0
CP-070843	0155	ļ-	CT-38	Correction to add optional support of Call Hold Supplementary Service	A	7.2.0
CP-070847	0147	<u> </u>	CT-38	Essential correction terminal profile indication for Local Connection Event		7.2.0
CP-070847		-	CT-38	Essential correction on test case 27.22.4.5.1	F	7.2.0
CP-070847		-	CT-38	Definition of test sequence 1.7 in test case 27.22.4.15	F	7.2.0
CP-070847		-	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		1	CT-39	Essential correction regarding terminal capabilities	F	7.3.0
CP-080172		-	CT-39	Essential correction to network dependency of several tests	F	7.3.0
CP-080388		1	CT-40	Essential correction of icon test case applicability	F	7.4.0
CP-080388		2	CT-40	Essential correction to 27.22.6.4	F	7.4.0
CP-080388		3	CT-40		F	7.4.0
CP-080588		-	CT-41	Essential correction of TC 27.22.4.12.1 Seq. 1.6	F	7.5.0
CP-080588		-	CT-41	Essential correction of test case applicability	<u>F</u>	7.5.0
CP-080588		-	CT-41	Essential correction of TC 27.22.7.8.1	F	7.5.0
CP-080906		-	CT-42	Essential correction of TC 27.22.6.5 seq. 5.1 applicability	F F	7.6.0
CP-080906		-	CT-42	Essential correction of bearer parameters in browser tests	•	7.6.0
CP-080948 CP-080948		3	CT-42 CT-42	Pre-conditions for Launch browser Essential correction of 27.22.4.26.2 Seq. 2.2	A A	7.6.0 7.6.0
CF-000940	0171	-	SP-42	r en en en en en en en en en en en en en	A	
	0470	-		Upgrade to Rel-8	- F	8.0.0
CP-090194		1	CT-43	the terminal profile content	•	8.1.0
CP-090194		-	CT-43	Essential correction of tables B.1 and E.1	F	8.1.0
CP-090194	0176	1	CT-43	Essential correction to BIP tests - usage of ME's default channel identifier	Α	8.1.0
CP-090459		3	CT-44		В	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		1	CT-45	Update of table E.1 regarding E-UTRAN support indication	F	8.3.0
CP-090718		1	CT-45	Essential correction of 27.22.6.1 sequence 1.9	F	8.3.0
CP-090718		-	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  Correction of inconsistency spotted at implementation	<u>F</u> -	8.3.0 8.3.1
CP-090999	0186	1	- CT-46	Essential correction of 27.22.4.7.3	- F	8.4.0
CP-090999 CP-091000		1	CT-46	Update of TS 31.124 for terminals supporting E-UTRAN	F	8.4.0
CP-091000		2	CT-46	Introduction of OPEN CHANNEL tests for E-UTRAN	<u>.</u> F	8.4.0
	-	<del>-</del>	SA-46	Upgrade to Rel-9	_	9.0.0
CP-100192	0189	1	CT-47	Introduction of BIP tests for E-UTRAN	В	9.1.0
CP-100192		1	CT-47	Introduction of Network Rejection Event test	В	9.1.0
CP-100192		1	CT-47	Introduction of Provide Local Information tests for E-UTRAN	В	9.1.0
CP-100192		1	CT-47	Introduction of Event Download – Location Status tests for E-UTRAN	В	9.1.0
CP-100191		-	CT-47	Introduction of Rel-9 test case applicability	F	9.1.0
CP-100179	0195	1	CT-47	Correction of typo error	Α	9.1.0
CP-100191	0196	2	CT-47	Dual Open Channel tests in TCP mode	В	9.1.0
CP-100191		1	CT-47	Open Channel tests for TCP mode and Default Bearer	В	9.1.0
CP-100191		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	Α	9.1.0

CP-doc	CR	REV	Meeting	SUBJECT	CAT	NEW VERS
CP-100179		-	CT-47	Essential correction to the condition table	A	9.1.0
CP-100395		-	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		1	CT-48	Essential correction of table E.1	В	9.2.0
CP-100395		1	CT-48	Essential correction of 27.22.4.27.2 Seq 2.10 test case applicability	F	9.2.0
CP-100395		1	CT-48	Correction to applicability table	F	9.2.0
CP-100395 CP-100395		1	CT-48 CT-48	Network Search mode test  Event download, Network Search mode test	B B	9.2.0 9.2.0
CP-100395		1	CT-48	Introduction of Steering of Roaming test for E-UTRAN	В	9.2.0
CP-100591		3	CT-49	Essential correction to Open Channel 27.22.4.27.2 sequence 2.4 test	A	9.3.0
CP-100592		1	CT-49	Update of references	F	9.3.0
CP-100593		1	CT-49	Essential correction to test case applicability of letter class C features	F	9.3.0
CP-100593		1	CT-49	Correction of 27.22.4.28.3. Seq 3.2	F	9.3.0
CP-100593		1	CT-49	Essential correction to SET UP CALL 27.22.4.13 sequence 1.1	F	9.3.0
CP-100613		3	CT-49	Addition of Access Technology change event download tests for E- UTRAN	В	9.3.0
CP-100613		3	CT-49	Addition of Open Channel test related to E-UTRAN network	С	9.3.0
CP-100613		1	CT-49	Addition of Call Control tests for E-UTRAN	В	9.3.0
CP-100620	_	2	CT-49	Essential correction of test 27.22.4.9.3	F	9.3.0
CP-100835		1	CT-50	Addition of Provide local information test , discovery of surrounding CSG cell	В	9.4.0
CP-100833		1	CT-50	Clarification of 'ELSE' parts in Table E.1	F_	9.4.0
CP-100834		1	CT-50	Correction of TCP/UDP referencing errors in Table E.1	F	9.4.0
CP-100834 CP-100834		1	CT-50	LTE test cases - specifying that default E-UTRAN UICC should be used	F F	9.4.0 9.4.0
CP-100834 CP-100830		1	CT-50 CT-50	Correction of SET UP CALL sequence 1.1 Definition of E-UTRAN/EPC ISIM-UICC for ISIM related testing	В	9.4.0
CP-100834		1	CT-50	Correction of references to non-existent data items in CLOSE	F	9.4.0
C1 -100034	0233	<u>'</u>	01-30	CHANNEL(E-UTRAN/EPC)	<u> </u>	9.4.1
CP-110231	0217	4	CT-51	Correction of errors in implementation of CR 234 (MCC).  Addition of Provide Local Information tests for multiple access	- В	9.4.1
<u>CP-110231</u>	0217	4	C1-51	technologies	Ь	9.5.0
CP-110230	0243	4	CT-51	Introduction ISIM related SMS-PP Data Download tests	В	9.5.0
CP-110230		6	CT-51	Introduction ISIM related Send Short Message tests	В	9.5.0
CP-110231		2	CT-51	Optimization of SEND SMS test cases	С	9.5.0
<u>CP-110231</u>	0246	1	CT-51	Optimization of SMS PP Download test case	С	9.5.0
	0248		CT-51	Introduction of Polling Off test for E-UTRAN	В	9.5.0
CP-110231	0250	1	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
CP-110503		3	CT-52	Addition of Event download test, CSG cell Selection	F	10.1.0
CP-110504 CP-110504		1	CT-52 CT-52	Introduction ISIM related SMS-PP Data Download tests Introduction ISIM related Send Short Message tests	F F	10.1.0
CP-110304 CP-110719		3	CT-52	Essential correction of the Terminal Profile entries in table E.1	F	10.1.0
CP-110719		1	CT-53	Essential correction of Send Short message tests	F	10.2.0
<u>CP-110592</u>		1	CT-53	Essential correction of Data Destination Address settings in BIP and	A	10.2.0
CD 440740	0004	4	OT 50	Launch Browser tests	F	40.00
CP-110719 CP-110719		1	CT-53 CT-53	Essential Correction to Tag length in Provide Local Information test Essential Correction to Network Rejection Event test	F	10.2.0
<u> </u>	0202	<del> </del>	01-00	Correction of implementation error in CR 255r3 (MCC)		10.2.0
CP-110904	0263	<u> </u>	CT-54	Essential correction of SMS-PP Data Download test cases	F	10.3.0
CP-110904		1	CT-54	Essential correction to Channel Status After Link Dropped in E-UTRA	F.	10.3.0
CP-110904		1	CT-54	Correction to test sequence content 4.3 and 4.4 for test case 27.22.4.1 of Table B.1		10.3.0
CP-110904	0256	2	CT-54	Essential correction to Steering of Roaming test case	F	10.3.0
CP-110906		1	CT-54	Essential correction to SMS-CB Applicability	Α	10.3.0
CP-110906	0257	2	CT-54	Essential correction to Play Tone test	A	10.3.0
CP-110907			CT-54	Correction of incorrect implementation of CR 255r3	F	10.3.0
CP-120151		1	CT-55	Test applicability correction of Open Channel with user rejection tests	Α	10.4.0
CP-120152		2	CT-55	Essential correction to test 27.22.4.15 Seq. 1.15	F	10.4.0
CP-120153		3	CT-55	Introduction of REFRESH with AID test	В	10.4.0
CP-120394		2	CT-56	Test applicability correction for terminals operating in PS mode	A	10.5.0
	0275	1	CT-56	Correction of expected Terminal Reponse for unsuccessful Open Channel commands	A	10.5.0
CP-120395			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	В	10.5.0
CP-120395	0276	1	CT-56	download over SGs (E-UTRAN)  Essential correction of Open Channel with Bearer type 0B tests	F	10.5.0
CP-120395 CP-120395		1	CT-56	Test modification for Provide Local Information IMEI and IMEISV testing	С	10.5.0
CP-120393		2	CT-57	Essential correction of Launch Browser tests	A	10.6.0
CP-120629		2	CT-57	Essential correction of Launch Browser tests	A	10.6.0
J. 120023	0200	1-	10:01	personnal correction of Edulion Diowaci toda	, ,	1.0.0.0

CP-doc	CR	REV	Meeting	SUBJECT	CAT	NEW_VERS
	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
	0280	1	CT-57	Corrections to test sequence 27.22.7.18.1 for CSG Cell Selection	F	10.6.0
CP-120632			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	В	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	Α	11.2.0
CP-130370	0285	6	CT-60	Superseding of OPEN CHANNEL test sequence 2.1 by Default Bearer	В	11.3.0
				test sequence		
CP-130370	0291	1	CT-60	Removal of applicability condition C102	F	11.3.0
CP-130370	0292		CT-60	Correction to the applicability of test case 27.22.4.7 seq. 4.1	F	11.3.0
	0293		CT-60	Correction to the applicability of test case 27.22.8 seq. 1.4	F	11.3.0
CP-130371	0296	2	CT-60	Correction of test sequence for PROVIDE LOCAL INFORMATION, E-	F	11.3.0
00.400070	0007		OT 00	UTRAN Intra-Frequency and Inter-Frequency Measurements	_	11.00
	0297	1	CT-60	Change of test sequence for SMS-PP data download	F	11.3.0
	0298 0299	2	CT-60 CT-60	Changes in LAUNCH BROWSER test cases	A F	11.3.0 11.3.0
		2		Correction of test sequence for PROVIDE LOCAL INFORMATION, NMR, UTRAN		
CP-130370	0300	2	CT-60	Essential correction to the applicability and test procedure of test case 27.22.4.10 Seq 1.9 & 27.22.5.1 Seq 1.9	F	11.3.0
CP-130532	0301	1	CT-61	Correction of Terminal Profile evaluation	F	11.4.0
CP-130532	0304	1	CT-61	Correction of chapter numbering in 27.22.7.15	F	11.4.0
CP-130532	0305	1	CT-61	Correction to applicability information of test case 27.22.4.15 seq 1.10	F	11.4.0
CP-130791	0302	1	CT-62	Correction of Terminal Profile evaluation for SET UP CALL bit	F	11.5.0
CP-130791	0307		CT-62	Correction to test case 27.22.5.2 seq. 1.7	F	11.5.0
	0308		CT-62	Update the status of A.1/154	F	11.5.0
	0309		CT-62	Update of the Generic Test Procedure 1 (SMS-PP Data Download)	F	11.5.0
	0310	1	CT-63	Usage of URL in test cases for LAUNCH BROWSER command	F	11.6.0
	0313	1	CT-64	Clarification on test case for PROVIDE LOCAL INFORMATION, E-	F.	11.7.0
				UTRAN Inter-Frequency Measurements		-
	0311	2	CT-64	Changes for validation of TI value	В	12.0.0
	0314	1	CT-64	Modification to test case 27.22.4.28.3 SEQ 3.2 (step 5)	F	12.0.0
	0317	1	CT-65	Open channel terminal response in case of modified parameters	F	12.1.0
	0321	3	CT-65	Change of test sequence for LAUNCH BROWSER with default URL	F	12.1.0
	0316		CT-65	Removal of applicability condition C133, C135, C136, C137 and C138	F	12.1.0
CP-140710			CT-65	Correction of Network Dependency of the TBD test sequence	F	12.1.0
	0324	1	CT-66	Change of test sequence for LAUNCH BROWSER with default URL	F	12.2.0
CP-140966	0323	3	CT-66	Correction of usage of TP-Message-Reference (TP-MR) in Send Short Message 1.9	F	12.2.0
CP-150164	0411		CT-67	Added column for Rel.12 in applicability table	В	12.3.0
CP-150164	0412	1	CT-67	Update of reference to ETSI TS 102 221 and release scope	F	12.3.0
CP-150164	0416		CT-67	Correction of OPEN CHANNEL Alpha Identifier handling and introduction of new alternative Terminal Response for GET CHANNEL STATUS	F	12.3.0
CP-150164	0417		CT-67	Sequences 1.4 and 1.5 and CLOSE CHANNEL Sequence 3.2.  Correction of usage of TP-Message-Reference (TP-MR) in remaining	F	12.3.0
				Send Short Message test cases		
CP-150387	0419	3	CT-68	Removal of mandatory clause	С	13.0.0
CP-150386	0420	3	CT-68	Making features optional	С	13.0.0
CP-150562	0423		CT-69	Typo in the Option A.1/74 for Class E: Terminal supports UDP, Terminal in Server Mode	F	13.1.0
CP-150562	0422	1	CT-69	Addition of Rel.13 column to applicability table	В	13.1.0
	0427	1	CT-69	Correction of technical handling of features made optional by TR 31.901 within applicability table and terminal profile.	F	13.1.0
CP-150562	0428	1	CT-69	Correction to PLI, Inter-frequency UTRAN Measurements test case	F	13.1.0
CP-150562	0424	3	CT-69	USAT Testing Enhancement by addition of REFRESH with IMSI	В	13.1.0
CP-150562	0425	3	CT-69	changing procedure test sequences USAT Testing Enhancement by addition of REFRESH with IMSI	В	13.1.0
CP-150828	0430	1	CT-70	changing procedure test sequences for E-UTRAN  Correction of applicability table for Short Message Service (SMS) over	F	13.2.0
CP-160144	0434		CT-71	SGs Correction of test case for Location status and access technology	F	13.3.0
CP-160144	0431	1	CT-71	change events Correction of TERMINAL RESPONSE coding in 27.22.4.7.2 sequence	F	13.3.0
				2.3		
	0432	1	CT-71	Editorial corrections of 27.22.4.11.1 – Expected Sequence 1.5	D F	13.3.0
		2	CT-71	Inclusion of Rel-12 and Rel-13 feature indication in the terminal profile support in Annex B		13.3.0
C6-160214	0435		CT-72	Addition of execution parameter to the applicability of TC 27.22.4.28.3 sequence 3.2	F	13.4.0

CP-doc	CR	REV	Meeting	SUBJECT	CAT	NEW_VERS
C6-160333	0441		CT-72	Clarification of ME behavior after 3G session reset for E-UTRAN	F	13.4.0
<u>C6-160237</u>	0440	0	CT-72	Correction to Test Case 27.22.4.15	F	13.4.0
<u>C6-160262</u>		2	CT-72	Addition of note to TC 27.22.4.7.2 Seq. 2.6/7 and TC 27.22.4.7.5 Seq. 5.1/2	F	13.4.0
<u>C6-160266</u>	0439	1	CT-72	Correction of test case for Location status and access technology change events	F	13.4.0
C6-160278	0438	2	CT-72	Essential correction of test case 27.22.4.14 for E-UTRAN	F	13.4.0
C6-160280	0436	1	CT-72	Clarification of ME behavior after 3G session reset	F	13.4.0
C6-160402	0442	1	CT-73	Essential correction of test case 27.22.4.14 Sequence 1.1	F	13.5.0
C6-160386	0443	1	CT-73	Essential corrections on test case 27.22.4.7.3	F	13.5.0
C6-160373	0444	1	CT-73	Clarification of ME behaviour after 3G session reset	F	13.5.0
C6-160393	0445		CT-73	Essential correction to number of BIP channels	F	13.5.0
<u>C6-160402</u>	0446	1	CT-73	Definition of expected EVENT DOWNLOAD - Location Status content in test case 27.22.7.4	F	13.5.0
C6-160515	0447		CT-74	Bit in Terminal Profile for call control functionality	F	13.6.0
<u>C6-160562</u>	0449		CT-74	Essential correction to test case on PROVIDE LOCAL INFORMATION	F	13.6.0
<u>C6-160595</u>	0448	1	CT-74	Correction in initial conditions for test case for Open Channel (related to E-UTRAN)	F	13.6.0
C6-170090	0451	1	CT-75	Modification of test cases 27.22.4.10.8 and 27.22.5.4 to test NB-IoT	В	13.7.0
C6-170097	0450	3	CT-75	Updating some E-UTRAN test cases applicability to cover NB-IoT implementations	В	13.7.0
<u>C6-170044</u>	0452	-	CT-75	Modification of E-UTRAN test sequences under cl. 27.22.4.15 and 27.22.4.14 to cover NB-IoT	В	13.7.0
<u>C6-17045</u>	0453	-	0453	Modification of E-UTRAN test sequences under cl. 27.22.4.7.3 and 27.22.4.7.5 to test NB-IoT	В	13.7.0
	_	-	SA-75	Update to Rel-14 version (MCC)	13.7.0	14.0.0
				Correction of implementation error	14.0.0	
C6-170246	0460	-	CT-76	Modification of E-UTRAN BIP test sequences to verify NB-IoT	В	14.1.0
C6-170270	0459	1	CT-76	Modification of E-UTRAN test sequences under cl. 27.22.7.4 and	В	14.1.0
00 11 021 0	0.00			27.22.7.17 to test NB-IoT		
<u>C6-170290</u>	0461	2	CT-76	Introduction of new test case for Call Control on EPS PDN connection	В	14.1.0
<u>C6-170421</u>	0466	-	CT-77	Essential correction to test sequences related to Steering of roaming	F	14.2.0
<u>C6-170422</u>	0467	-	CT-77	Conditions for URI support in SEND SHORT MESSAGE command	F	14.2.0
<u>C6-170423</u>	0468	-	CT-77	Correction of AT Response in test cases for RUN AT	F	14.2.0
<u>C6-170520</u>	0469	-	CT-77	COMMAND  Essential correction to the applicability of URI support in SET UP	F	14.2.0
<u>C6-170480</u>	0470	1	CT-77	CALL Clarification on the requested address during execution of test	F	14.2.0
				cases for OPEN CHANNEL		
<u>C6-170488</u>		3	CT-77	Correction of wrong implementation of CRs in TS 31.124	F	14.2.0
<u>C6-170504</u>	0473	2	CT-77	Introduction of new test sequences for EVENT DOWNLOAD in E-UTRAN	В	14.2.0
C6-170505	0474	3	CT-77	Corrections of test case 27.22.10	F	14.2.0
C6-170506	0475	3	CT-77	Adding content to FFS test sequences under 27.22.10	В	14.2.0
C6-170743	0476	5	CT-78	Introduction of new test case for Call Control on PDP Context	В	14.3.0
<u>C6-170698</u>	0477	1	CT-78	Activation  Correction of AT Command in test cases for RUN AT COMMAND	F	14.3.0
C6-170634	0478	<u> </u>	CT-78	Usage of programmed USIM for execution of test cases	В	14.3.0
<u>C6-170634</u> <u>C6-170693</u>	0478	1	CT-78		F	14.3.0
		<u> </u>		Fixed applicability table for Call Control on EPS PDN connection		
<u>C6-170637</u>	0480	-	CT-78	Correction of call flow for CALL CONTROL on EPS PDN Connection	F	14.3.0
<u>C6-170647</u>	0481	<u>-</u>	CT-78	Correction of wrong implemention of CR 0471	F	14.3.0
<u>C6-170747</u>	0482	3	CT-78	Introduction of note about applicability of some test cases	D	14.3.0
C6-170724	0483	1	CT-78	Section number correction of TC 27.22.10	D	14.3.0
C6-170725	0484	1	CT-78	Introduction of general definition and environment for E-UTRAN in NB-S1 mode	F	14.3.0
C6-170721	0485	1	CT-78	Clarification on the requested address during execution of TC	F	14.3.0

# History

	Document history						
V14.0.0	April 2017	Publication					
V14.0.1	June 2017	Publication					
V14.1.0	July 2017	Publication					
V14.2.0	October 2017	Publication					
V14.3.0	January 2018	Publication					