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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 - APE 7112B Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° w061004871

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is (or any other verb in the indicative mood) indicates a statement of fact

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Introduction

The present document defines application behavioural tests for USIM Application Toolkit functionality on an ME with a non-removable UICC/USIM where no access to the physical UICC-Terminal interface can be granted when interacting with a 3GPP network.

The aim of the present document is to ensure the correct behaviour of a UE interfacing with a 3GPP network whilst it is proved that USIM Application Toolkit specific data and functionality is used wherever indicated, similar to application tests defined in TS 31.124 [2] but without direct access to the UICC-Terminal interface.

The present document does not define any aspects related to the administrative management phase of the UICC. Any internal technical realisation of either the UICC or the terminal is only specified where these are important for the verification of specific behaviour. Application specific details for applications residing on an UICC are specified in the respective application specific documents.

1 Scope

The present document describes behavioural tests for the USIM Application Toolkit implemented in Mobile Equipment (ME) or Mobile Stations (MS) supporting a non-removable UICC only 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 [7] and ETSI ETS 300 406 [20].

This document shall provide alternative verification and testing approaches for test cases initially defined in TS 31.124 [2] or ETSI TS 102 384 respectively. To guarantee the highest possible reliability, the verification of existing requirements shall be done using methods defined by ETSI or 3GPP.

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 [3] tests for features which are out of scope of 3GPP.

Due to possible limitations in profile handling and updating it is not intended to use the test cases defined within this document with MEs implemented in accordance with Rel-12 or earlier.

2 References

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- 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 same Release as the present document*.
- 3GPP TR 21.905: "Vocabulary for 3GPP Specifications". [1] [2] 3GPP TS 31.124: " Mobile Equipment (ME) conformance test specification; Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification". ETSI TS 102 384 V17.0.0: "Smart cards; UICC-Terminal interface; Card Application Toolkit [3] (CAT) conformance specification". [4] 3GPP TS 38.508-1: "5GS; User Equipment (UE) conformance specification; Part 1: Common test environment". 3GPP TS 36.508; "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet [5] Core (EPC); Common test environments for User Equipment (UE) conformance testing". [6] 3GPP TS 34.108: "Common test environments for User Equipment (UE) conformance testing". ISO/IEC 9646-7:1995: "Information technology - Open Systems Interconnection - Conformance [7] testing methodology and framework - Part 7: Implementation Conformance Statements". [8] ETSI TS 102 221 V18.0.0: "UICC-Terminal interface; Physical and logical characteristics". [9] GSMA TS.48 v5.0: "Generic eUICC Test Profile for Device Testing".
- [10] ETSI TS 103 666-1 V17.3.0: "Smart Secure Platform (SSP); Part 1: General characteristics".
- [11] ETSI TS 103 666-2 V17.0.0: "Smart Secure Platform (SSP); Part 2: Integrated SSP (iSSP) characteristics".
- [12] ETSI TS 103 666-3 V16.0.0: "Smart Secure Platform (SSP); Part 3: Embedded SSP (eSSP) Type 1 characteristics".

[13]	802.11-2016: "IEEE Standard for Information technology—Telecommunications and information exchange between systems Local and metropolitan area networks—Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications".
[14]	ETSI TS 102 225 V18.1.0: "Secured packet structure for UICC based applications".
[15]	ETSI TS 102 226 V18.3.0: "Remote APDU structure for UICC based applications".
[16]	3GPP TS 27.007: "AT command set for User Equipment (UE) ".
[17]	3GPP TS 31.130: "(U)SIM Application Programming Interface (API); (U)SIM API for $Java^{TM}Card$ ".
[18]	Trusted Connectivity Alliance: "eUICC Profile Package: Interoperable Format Technical Specification Version 3.3.1".
[19]	ETSI TS 102 241V18.0.0: "UICC Application Programming Interface (UICC API) for Java Card TM ".
[20]	3GPP TS 31.111: "Universal Subscriber Identity Module (USIM) Application Toolkit (USAT)".
[21]	Void
[22]	ETSI TS 102 671 V18.1.0: "Machine to Machine UICC; Physical and logical characteristics"
[23]	GSMA SGP.22 v3.1: "RSP Technical specification".
[24]	3GPP TS 38.508-1: "5GS; User Equipment (UE) conformance specification; Part 1: Common test environment".

3 Definitions of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in TR 21.905 [1], TS 31.124 [2] and the following apply:

E-UTRAN: term used for E-UTRAN in WB-S1 mode.

NAA: term used in ETSI TS 102 384 [3] refers to the USIM application.

NB-IoT: term used for E-UTRAN in NB-S1 mode.

nrUICC: non-removable Universal Integrated Circuit Card. The non-removable card hosting the nrUSIM application embedded or integrated into a ME.

nrUSIM: non-removable Universal Subscriber Identity Module, i.e. a USIM application or equivalent functionality embedded or integrated into a ME.

Terminal: term used in ETSI TS 102 384 [3], refers to the Mobile Equipment (ME).

TT: Test Tool: collective term for requirements fulfilling but not clearly specified test environment.

UICC: term used in ETSI TS 102 384 [3] refers to the USIM card.

A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1].

3.2 Symbols

For the purposes of the present document, the following symbols apply:

bx Bit x of byte (leftmost bit is MSB)

Bn Byte No. n

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] TS 31.124 [2] and the following apply:

CR Conformance Requirement EUT Equipment Under Test SA Suitability Assessment

TT Test Tool

USAT USIM Application Toolkit

An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1].

3.4 Mobile station definition and configurations

The mobile station definition and configurations specified in TS 34.108 [6] and TS 36.508 [5] shall apply, unless otherwise specified in the present clause.

3.5 Coding Conventions

For the purposes of the present document, the following coding conventions apply:

All lengths are presented in bytes, unless otherwise stated. Each byte B is represented by eight bits b8 to b1, where b8 is the most significant bit (MSB) and b1 is the least significant bit (LSB). In each representation, the leftmost bit is the MSB.

In the UICC, all bytes specified as RFU shall be set to '00' and all bits specifies as RFU shall be set to '0'. If the USIM application exists on a UICC or is built on a generic telecommunications card, then other values may apply for the non-USIM applications. The values will be defined in the appropriate specifications for such cards and applications. These bytes and bits shall not be interpreted by a ME in a 3GPP session.

The coding of all data objects in the present document is according to ETSI TS 102 221 [8]. All data objects are BER-TLV except if otherwise defined.

3.6 Applicability

3.6.1 Applicability of the present document

The present document applies to user equipment that supports the USIM Application Toolkit optional feature where the UICC-terminal interface is not accessible and communication on the UICC-terminal interface cannot be traced.

3.6.2 Applicability of the individual tests

Table B.1 lists the optional, conditional, or mandatory features for which the supplier of the implementation states the support. As pre-condition the supplier of the implementation shall state the support of possible options in accordance with table A.1. ME default configuration in accordance with table A.2 and declare what testing options are supported in table A.3 of the present document.

The "Release XY ME" columns shows the status of the entries as follows:

The following notations, defined in ISO/IEC 9646-7 [7], 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 a 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 recommendation" column shows the status of the entries as follows:

- A applicable the test is applicable according to the corresponding entry in the "Rxx ME" column
- R redundant the test has to be considered as redundant when the corresponding E-UTRAN/EPC related test 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.

3.6.3 Declaration of options specific for testing of terminals with non-removable USIM

To identify a suitable test environment the support of some specific features is required. The supplier of the implementation shall state the support of possible options in table A.3.

Table A.3: Declaration of supported testing options

Item	Option	Status	Support	Mnemonic
1	Support of UTRAN access	0		O_UTRAN
2	Support of E-UTRAN access	0		O_E-UTRAN
3	Support of NB-IoT access only	0		O_NB-IoT
4	Support of 5G Core Network	0		O_5GC
5	Support of New Radio access	0		O_5G-NR
6	Support of RSP(SGP.22 [23])	C003		O_RSP22
7	Support of AT+CSIM	0		O_AT+CSIM
8	ME supports non-removable UICC only (see NOTE 1)	0		O_NON-REMOVABLE_UICC_ONLY
9	Support of UICC and USIM API for Java Card (see NOTE 2)	0		O_JAVA_CARD_API
10	Support of USAT functionality (see NOTE 3)	0		O_USAT
11	Support of Satellite New Radio	0		O_5G-SAT-NR

NOTE1: 'ME supports non-removable UICC only' means that access to the physical card interface as defined in ETSI TS 102 221 [8] is not available

NOTE 2: The UE shall claim to support the Java Card API if test relevant functions as defined in the examples in Annex A, clauses A.1 and A.2 are supported.

NOTE 3: The support of the USAT as defined here requires the support of the UICC API defined in ETSI TS 102 241 [19] and the USIM API defined in TS 31.130 [17]

3.6.4 Applicability to user equipment

The applicability to user equipment supporting the non-removable USIM is specified in table B.1, regardless of references to complete tests, test purposes, conformance requirements or test methods from TS 31.124 [2] the applicability of the individual test cases is defined within the present document.

To execute tests defined in the present document, methods to trigger proactive commands from the non-removable USIM are required. The verification of conformance requirements can be done by using and (explicit verification methods only. The support of explicit verification methods by the EUT (UE) has to be declared in accordance with table A.4 (see clause 3.6.5). Test sequence specific declarations of methods required to be supported are listed in the Applicability table – Table B.1.

If tests require verification of proactive commands, the TT should be enabled to trigger required proactive commands using a test toolkit applet loaded on to the non-removable UICC.

Network dependent test cases on UEs supporting NB-IoT shall be verified by accessing the NB System Simulator (NB-SS).

3.6.5 Supported additional explicit verification methods

To execute tests defined in the present document, methods to trigger proactive commands from the non-removable USIM are required. The verification of conformance requirements can be done by using and (explicit verification methods only. The support of explicit verification methods by the EUT (UE) has to be declared in accordance with table A.4 (see clause 3.6.5). Test sequence specific declarations of methods required to be supported are listed in the Applicability table – Table B.1.

If tests require verification of proactive commands, TT shall be able to trigger required proactive commands using a test toolkit applet loaded on to the non-removable UICC.

Network dependent test cases on UEs supporting NB-IoT shall be verified by accessing the NB System Simulator (NB-SS).

Item Option Status Support Mnemonic Support of Toolkit Test Events (see 0 O_Toolkit_Test_Events 1 note) 2 Support of seamless test APDU 0 O Seamless APDU Logging logging via Baseband (see note) Interface for file contents verification 0 O File Contents Verification 3 The support of the SSP Test Tool Interface (ETSI TS 103 834) is handled like the support of seamless test NOTE: APDU logging via Baseband or for Test Toolkit Event based testing. Specific information may be added to test cases where needed.

Table A.4: Test Options Declaration

For details on these options see clauses 4.1.3, to 4.1.6 of the present document.

3.7 Table of optional features

Support of several features is optional or release dependent for the user equipment. However, if a UE states conformance with a specific 3GPP release, it is mandatory for the UE to support all mandatory functions of that release, as stated in table A.1. 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
For the de	claration of the support of optional featu	ires the co	ntents for Ta	ble A.1 as defined in TS 31.124 [2] clause 3.3
shall be us	sed.			

3.8 Applicability table

Table B.1: Applicability of tests

			Table B.		ability of te			_	
Test#	Seq.	Title	from Rel.	to Rel. (see note)	Appl.	Terminal Profile	NW Dep.	Exec.	Support
10.3.1	PROF	ILE DOWNLOAD		(See Hote)		1 TOTHE		parameter	
10.0.1	1 1	PROFILE DOWNLOAD	Rel-13		М	E.1/1			
10.3.2	Conte	ents of the TERMINAL PRO		mand					
	1	Contents of the	Rel-13		М	E.1/1			
		TERMINAL PROFILE							
		command							
10.3.3	Servi	cing of Proactive UICC Cor	mmands						
	1	Servicing of Proactive	Rel-13		М				
		UICC Commands							
10.4		ctive UICC commands							
10.4.1		LAY TEXT (Name of)							
10.4.1.1		LAY TEXT (Normal)	Dol 12	l	C177	L = 4/47 AND		I	l
	1.1	Unpacked	Rel-13		C177	E.1/17 AND E.1/110			
	1.2	Screen busy	Rel-13		C177	E.1/17 AND			
	1.2	Gereen busy	TKCI 10		0177	E.1/110			
	1.3	High priority	Rel-13		C177	E.1/17 AND			
						E.1/110			
	1.4	Packed	Rel-13		C177	E.1/17 AND			
						E.1/110			
	1.5	Clear after delay	Rel-13		C177	E.1/17 AND			
	4.0	1 1001	D 140		0.177	E.1/110			
	1.6	Long text up to 160 bytes	Rel-13		C177	E.1/17 AND			
	1.7	Backwards move in USIM	Rel-13		C177 AND	E.1/110 E.1/17 AND			
	1.7	session	Kel-13		C177 AND	E.1/110 AND			
		30331011			0170	E.1/111			
	1.8	Session terminated by	Rel-13		C177 AND	E.1/17 AND			
		user			C178	E.1/110 AND			
						E.1/111			
	1.9	Command not understood	Rel-13		C177	E.1/17 AND			
		by ME		""		E.1/110			
10.4.1.2		LAY TEXT (Support of "No re		m user")	0400 4110	L = 4/47 AND		T	ı
	2.1	No response from user	Rel-13		C120 AND C177 AND	E.1/17 AND E.1/110 AND			
					C177 AND C178	E.1/110 AND			
10.4.1.3	DISPI	LAY TEXT (Display of extens	sion text)		0170				
10.1.1.0		Extension Text	Rel-13		C177	E.1/17 AND			
						E.1/16 AND			
						E.1/110			
10.4.1.4		LAY TEXT (Sustained text)							
	4.1	Sustained text; unpacked	Rel-13		C177	E.1/17 AND			
		data 8 bits				E.1/65 AND			
	4.2	Custoined toxts along	Dol 12		C177	E.1/110 E.1/17 AND			
	4.2	Sustained text; clear message after delay	Rel-13		C177	E.1/17 AND E.1/65 AND			
		linessage after delay				E.1/110			
	4.3	Sustained text; wait for	Rel-13		C177 AND	E.1/17 AND			
		user MMI to clear			C178	E.1/65 AND			
						E.1/110 AND			
						E.1/111			
10.4.1.5		LAY TEXT (Display of icons)		ı		T T		,	ı
	5.1	Display of basic icon; self-	Rel-13		C108 AND	E.1/17 AND			
		explanatory	D-140		C177	E.1/110			
	5.2	Display of colour icon	Rel-13		C171 AND C177	E.1/17 AND E.1/110			
	5.3	Display of basic icon - not	Rel-13		C177	E.1/17 AND			
	3.5	self-explanatory	1.01-10		C108 AND	E.1/110			
10.4.1.6	DISPI	LAY TEXT (UCS2 display in	Cyrillic)	<u> </u>				1	ı
		UCS2 display in Cyrillic	Rel-13		C118 AND	E.1/17 AND			
		1 . 7 - 7			C177	E.1/15 AND			
[E.1/110			
10.4.1.7	DISPI	LAY TEXT (Variable Time ou	ıt)						

i		b .	D 140	0400 4110	T = 4/47 AND			
	7.1	Variable Timeout	Rel-13	C126 AND	E.1/17 AND			
				C177 AND	E.1/137 AND			
				C178	E.1/110 AND			
10.4.1.8	DICD	AV TEXT (Company of Tour	\		E.1/111		<u> </u>	1
10.4.1.6		LAY TEXT (Support of Text A Text attribute – left	Rel-13	C153 AND	E.1/17 AND		1	
	0.1	alignment	Kei-13	C153 AND C177	E.1/124 AND			
		aligilitietit		Citt	E.1/217 AND			
					E.1/110			
	8.2	Text attribute – center	Rel-13	C154 AND	E.1/17 AND		1	1
	0.2	alignment		C177	E.1/124 AND			
		9			E.1/218 AND			
					E.1/110			
	8.3	Text attribute - right	Rel-13	C155 AND	E.1/17 AND			
		alignment		C177	E.1/124 AND			
					E.1/219 AND			
					E.1/110			
	8.4	Text attribute – large font	Rel-13	C157 AND	E.1/17 AND			
		size		C156 AND	E.1/124 AND			
				C177	E.1/221 AND			
					E.1/220 AND			
	0.5	Total attelled a secoli foot	D-140	0450 AND	E.1/110		1	+
	8.5	Text attribute – small font	Rel-13	C158 AND C156 AND	E.1/17 AND E.1/124 AND			
		size		C156 AND C177	E.1/124 AND E.1/222 AND			
				CITT	E.1/220 AND			
					E.1/110			
	8.6	Text attribute – bold on	Rel-13	C160 AND	E.1/17 AND			
	0.0	Text diffibute bold off	1101 10	C159 AND	E.1/124 AND			
				C177	E.1/225 AND			
					E.1/226 AND			
					E.1/110			
	8.7	Text attribute - italic on	Rel-13	C161 AND	E.1/17 AND			
				C159 AND	E.1/124 AND			
				C177	E.1/225 AND			
					E.1/227 AND			
					E.1/110			
	8.8	Text attribute – underlined	Rel-13	C162 AND	E.1/17 AND			
		on		C159 AND	E.1/124 AND			
				C177	E.1/225 AND			
					E.1/228 AND E.1/110			
	8.9	Text attribute –	Rel-13	C163 AND	E.1/17 AND		+	+
	0.9	strikethrough on	110-13	C159 AND	E.1/124 AND			
		Striketi i odgi i ori		C177	E.1/225 AND			
				0	E.1/229 AND			
					E.1/110			
	8.10	Text attribute - foreground	Rel-13	C164 AND	E.1/17 AND			
		and background colours		C165 AND	E.1/124 AND			
				C177	E.1/230 AND			
					E.1/231 AND			
	<u></u>				E.1/110			
10.4.1.9	DISP	LAY TEXT (UCS2 display in		,				,
	9.1	UCS2 display in Chinese	Rel-13	C143 AND	E.1/17 AND			
				C177	E.1/15 AND			
40.4.4.2	D.C.	AV TEVT (LOCO II I	(Cataliana)		E.1/110			
10.4.1.10		LAY TEXT (UCS2 display in		0445 415	E 4/47 AND		1	_
	10.1	UCS2 display in Katakana	Rel-13	C145 AND	E.1/17 AND			
				C177	E.1/15 AND E.1/110			
10.4.2	GET	INKEY			L.1/11U			
10.4.2.1		INKEY (Normal)						
10.4.2.1		Prompt unpacked	Rel-13	C177 AND	E.1/18 AND		T	
	'''		1.01.10	C177 AND	E.1/110 AND			
				31.0	E.1/111			
	1.2	Prompt packed	Rel-13	C177 AND	E.1/18 AND		1	
				C178	E.1/110 AND			
	L				E.1/111		<u> </u>	
	1.3	Backwards move in UICC	Rel-13	C177 AND	E.1/18 AND			
		session		C178	E.1/110 AND			
					E.1/111			
	1.4	Session terminated by	Rel-13	C177 AND	E.1/18 AND	·		
		user		C178	E.1/110 AND			
					E.1/111		1	
	1.5	SMS alphabet	Rel-13	C177 AND	E.1/18 AND			
l		<u> </u>		C178	E.1/110 AND		<u> </u>	

i		1				1	1	1
	4.0	1 1001	D 140	0477 4110	E.1/111			
	1.6	Long text up to 160 bytes	Rel-13	C177 AND	E.1/18 AND			
				C178	E.1/110 AND			
	0==		\perp		E.1/111			
10.4.2.2		NKEY (No response from U		0.000 1110	T =	I	T	ı
	2.1	No response from user	Rel-13	C120 AND	E.1/18 AND			
				C177 AND	E.1/110 AND			
	0==		<u> </u>	C178	E.1/111		l .	
10.4.2.3		NKEY (UCS2 display in Cyr			I =	I	_	1
	3.1	UCS2 display in Cyrillic	Rel-13	C118 AND	E.1/18 AND			
				C177 AND	E.1/15 AND			
				C178	E.1/110 AND			
		11000 11 1	5	2442411	E.1/111			
	3.2	UCS2 display; Long text	Rel-13	C118 AND	E.1/18 AND			
		up to 70 chars in Cyrillic		C177 AND	E.1/15 AND			
				C178	E.1/110 AND			
ļ					E.1/111			
10.4.2.4		NKEY (UCS2 entry in Cyrilli		1				
	4.1	UCS2 entry in Cyrillic	Rel-13	C105 AND	E.1/18 AND			
				C177 AND	E.1/14 AND			
				C178	E.1/110 AND			
					E.1/111			
10.4.2.5	GET	NKEY ("Yes/No" Response)					_	
	5.1	"Yes/No" response	Rel-13	C177 AND	E.1/18 AND		1	
1				C178	E.1/60 AND		1	
					E.1/110 AND			
			<u> </u>		E.1/111		<u> </u>	
10.4.2.6	GET	NKEY (Display of icons)						
	6.1	Basic icon - self-	Rel-13	C108 AND	E.1/18 AND			
		explanatory		C177 AND	E.1/110 AND			
] , ,		C178	E.1/111			
	6.2	Basic icon - non self-	Rel-13	C108 AND	E.1/18 AND			
	0.2	explanatory	1101 10	C177 AND	E.1/110 AND			
		explanatory		C178	E.1/111			
	6.3	Colour icon - self-	Rel-13	C171 AND	E.1/18 AND			
	0.5	explanatory	1.61-13	C177 AND	E.1/10 AND			
		explainatory		C177 AND	E.1/111			
	6.4	Colour icon - non self-	Rel-13	C178	E.1/18 AND			
	0.4		IVEI-13	C171 AND	E.1/10 AND			
		explanatory		C177 AND	E.1/111			
10.4.2.7	GET	NKEY (Help Information)	l	1 0178	L. 1/ 1 1 1			
10.4.2.7	7.1	Help information	Rel-13	C107 AND	E.1/18 AND	I	1	ı
	7.1	neip inioimation	Kel-13	C177 AND	E.1/10 AND			
10.4.2.8	CET	NICEY (Veriable Time out)		C178	E.1/111		l.	
10.4.2.8		NKEY (Variable Time out)	Dal 40	CAOC AND	F 4/40 AND	I	ı	I
	8.1	Variable Timeout	Rel-13	C126 AND	E.1/18 AND			
				C177 AND	E.1/140 AND			
				C178	E.1/110 AND			
40.400		INICELY (Comment of Tourish			E.1/111		l	
10.4.2.9		NKEY (Support of Text Attri		04=0 ***	E 4/10 ****	ı	1	ı
	9.1	Text attribute – left	Rel-13	C153 AND	E.1/18 AND			
		alignment]	C177 AND	E.1/124 AND			
1				C178	E.1/217 AND		1	
]		E.1/110 AND			
1					E.1/111			
	9.2	Text attribute – center	Rel-13	C154 AND	E.1/18 AND		<u> </u>	
		alignment		C177 AND	E.1/124 AND			
1				C178	E.1/218 AND		1	
]		E.1/110 AND			
]		E.1/111			
	9.3	Text attribute – right	Rel-13	C155 AND	E.1/18 AND			
1		alignment		C177 AND	E.1/124 AND		1	
1		3		C178	E.1/219 AND		1	
]		E.1/110 AND			
]		E.1/111			
	9.4	Text attribute – large font	Rel-13	C157 AND	E.1/18 AND		1	
1	0.4	size		C156 AND	E.1/124 AND		1	
		0.20]	C130 AND	E.1/221 AND			
]	C177 AND	E.1/221 AND			
]	0170	E.1/110 AND			
]		E.1/111			
	0.5	Toxt attribute amali fact	Dol 12	C4E0 AND			1	
	9.5	Text attribute – small font	Rel-13	C158 AND	E.1/18 AND			
1		size	j	C156 AND	E.1/124 AND		1	
]	C177 AND	E.1/222 AND			
1			j	C178	E.1/220 AND		1	
	<u> </u>	1			E.1/110 AND		1	

				<u> </u>	E.1/111		<u></u>
	9.6	Text attribute – bold on	Rel-13	C160 AND	E.1/18 AND		
				C159 AND	E.1/124 AND		
				C177 AND	E.1/221 AND		
				C178	E.1/220 AND		
				00	E.1/110 AND		
					E.1/111		
	9.7	Text attribute – italic on	Rel-13	C161 AND	E.1/18 AND		
	9.1	Text attribute – Italic off	Kel-13	C159 AND	E.1/124 AND		
				C177 AND	E.1/225 AND		
				C178	E.1/227 AND		
					E.1/110 AND		
		T	D 140	0400 4110	E.1/111	1	+
	9.8	Text attribute – underlined	Rel-13	C162 AND	E.1/18 AND		
		on		C159 AND	E.1/124 AND		
				C177 AND	E.1/225 AND		
				C178	E.1/228 AND		
					E.1/110 AND		
					E.1/111		
	9.9	Text attribute –	Rel-13	C163 AND	E.1/18 AND		
		strikethrough on		C159 AND	E.1/124 AND		
				C177 AND	E.1/225 AND		
				C178	E.1/229 AND		
1					E.1/110 AND		1
1	L				E.1/111		<u> </u>
1	9.10	Text attribute - foreground	Rel-13	C164 AND	E.1/18 AND		
		and background colours		C165 AND	E.1/124 AND		
				C177 AND	E.1/230 AND		
				C178	E.1/231 AND		
					E.1/110 AND		
					E.1/111		
10.4.2.10	GET	NKEY (UCS2 display in Chir	nese)	.		•	•
		UCS2 display in Chinese	Rel-13	C143 AND	E.1/18 AND		
				C177 AND	E.1/15 AND		
				C178	E.1/110 AND		
					E.1/111		
	10.2	UCS2 display in Chinese;	Rel-13	C143 AND	E.1/18 AND		
	10.2	Long text up to 70 chars	1101 10	C177 AND	E.1/15 AND		
		Long text up to 70 onais		C178	E.1/110 AND		
				0170	E.1/111		
10.4.2.11	GET	NKEY (UCS2 entry in Chine	se)			1	1
10.1.2.11		UCS2 entry in Chinese	Rel-13	C142 AND	E.1/18 AND		1
	1	OOOZ CHILY III OHIIICSC	IXCI-13	C177 AND	E.1/14 AND		
				C178	E.1/110 AND		
				0170	E.1/111		
10.4.2.12	GET	NKEY (UCS2 display in Kata	akana)			1	1
10.4.2.12		UCS2 display in Katakana	Rel-13	C145 AND	E.1/18 AND	T	1
	12.1	OCOZ display in Natakana	IXCI-13	C177 AND	E.1/15 AND		
				C178	E.1/110 AND		
				0170	E.1/111		
	12.2	UCS2 display in Katakana;	Rel-13	C145 AND	E.1/18 AND	1	+
	12.2	Long text up to 70 chars	Kel-13	C143 AND	E.1/15 AND		
		Long text up to 70 chars		C177 AND C178			
				C1/6	E.1/110 AND		
10 4 2 42	CET	NKEV (IICS) ontar in Matala	202)		E.1/111		
10.4.2.13		NKEY (UCS2 entry in Katakana		0444 4515	E 4/40 AND	I	
	13.1	UCS2 entry in Katakana	Rel-13	C144 AND	E.1/18 AND		
				C177 AND	E.1/14 AND		
				C178	E.1/110 AND		
10.4.2	CET .	NDUT			E.1/111	<u> </u>	
10.4.3		NPUT					
10.4.3.1	_	NPUT (Normal)	Pol 42	CATT AND	E 1/10 AND	1	
	1.1	Digits only	Rel-13	C177 AND	E.1/19 AND		
				C178	E.1/110 AND		
	4.0	land to a alice of	Dal 40	0477 4115	E.1/111	1	1
	1.2	Input packed	Rel-13	C177 AND	E.1/19 AND		
				C178	E.1/110 AND		
		0.10	5.1.5		E.1/111	-	
	1.3	SMS alphabet	Rel-13	C177 AND	E.1/19 AND		
				C178	E.1/110 AND		
					E.1/111		
	1.4	Hidden input	Rel-13	C177 AND	E.1/19 AND		
		1		C178	E.1/110 AND		
	L				E.1/111		
	1.5	Min / max acceptable	Rel-13	C177 AND	E.1/19 AND		
		length		C178	E.1/110 AND		
		. ~	1	1		1	
			l		E.1/111		

•							
	1.6	Backwards move in UICC	Rel-13	C177 AND	E.1/19 AND		
		session		C178	E.1/110 AND		
	4.7	0	D-140	0477 AND	E.1/111		
	1.7	Session terminated by	Rel-13	C177 AND	E.1/19 AND		
		user		C178	E.1/110 AND E.1/111		
	1.8	Prompt text up to 160	Rel-13	C177 AND	E.1/19 AND		
	1.0	bytes	IXel-13	C177 AND	E.1/110 AND		
		bytes		0170	E.1/111		
	1.9	SMS default alphabet; ME	Rel-13	C177 AND	E.1/19 AND		
		to echo text; packing not		C178	E.1/110 AND		
		required			E.1/111		
	1.10	Null length for the text	Rel-13	C177 AND	E.1/19 AND		
		string		C178	E.1/110 AND		
40.400	OFT)		E.1/111		
10.4.3.2		INPUT (No response from Us		C400 AND	L E 4/40 AND		
	2.1	No response from user	Rel-13	C120 AND C177 AND	E.1/19 AND E.1/110 AND		
				C177 AND	E.1/111		
10.4.3.3	GET	INPUT (UCS2 display in Cyri	llic)	0170	L.1/111		
10.1.0.0	3.1	Text sting coding in UCS2	Rel-13	C118 AND	E.1/19 AND		
	0	in Cyrillic		C177 AND	E.1/15 AND		
		,		C178	E.1/110 AND		
					E.1/111		
	3.2	Max length for the text	Rel-13	C118 AND	E.1/19 AND		
		string coding in UCS2 in		C177 AND	E.1/15 AND		
		Cyrillic		C178	E.1/110 AND		
40.40.4	OFT		,	_	E.1/111		
10.4.3.4		INPUT (UCS2 entry in Cyrillio		0405 AND	F 4/40 AND		
	4.1	Character set from UCS2	Rel-13	C105 AND C177 AND	E.1/19 AND E.1/14 AND		
		alphabet in Cyrillic		C177 AND	E.1/110 AND		
				0176	E.1/111		
	4.2	Character set from UCS2	Rel-13	C105 AND	E.1/19 AND		
		alphabet in Cyrillic; max	110110	C177 AND	E.1/14 AND		
		length		C178	E.1/110 AND		
					E.1/111		
10.4.3.5	GET	INPUT (Default text)					
	5.1	Default text for the input	Rel-13	C177 AND	E.1/19 AND		
				C178	E.1/110 AND		
			5 1 10	0.4== 43.45	E.1/111		
	5.2	Default text for the input;	Rel-13	C177 AND	E.1/19 AND		
		max length		C178	E.1/110 AND E.1/111		
10.4.3.6	GET	INPUT (Display of icons)			[[.1/111]		
10.4.5.0	6.1	Basic icon; self-	Rel-13	C108 AND	E.1/19 AND		
	0.1	explanatory	110110	C177 AND	E.1/110 AND		
		oxp.a.ratory		C178	E.1/111		
	6.2	Basic icon; non self-	Rel-13	C108 AND	E.1/19 AND		
		explanatory		C177 AND	E.1/110 AND		
				C178	E.1/111		
	6.3	Colour icon; self-	Rel-13	C171 AND	E.1/19 AND		
		explanatory		C177 AND	E.1/110 AND		
	0.4		D 140	C178	E.1/111		
	6.4	Colour icon; non self-	Rel-13	C171 AND C177 AND	E.1/19 AND E.1/110 AND		
		explanatory		C177 AND C178	E.1/110 AND E.1/111		
10.4.3.7	GFT	INPUT (Help Information)	L	1 0170	_ E. I/ I I I		
10.4.0.7	<u> </u>	in or (noip intollitation)	Rel-13	C107 AND	E.1/19 AND	Π	
	7 1	8 bit data Message help	I Kel-10				
	7.1	8 bit data Message; help information available	Kei-13	C177 AND	E.1/110 AND		
	7.1		Kel-13				
10.4.3.8				C177 AND	E.1/110 AND		
10.4.3.8		information available INPUT (Support of Text Attrib Text attribute– left		C177 AND C178	E.1/110 AND E.1/111		
10.4.3.8	GET	information available INPUT (Support of Text Attrib	oute)	C177 AND C178 C153 AND C177 AND	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND		
10.4.3.8	GET	information available INPUT (Support of Text Attrib Text attribute– left	oute)	C177 AND C178	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/217 AND		
10.4.3.8	GET	information available INPUT (Support of Text Attrib Text attribute– left	oute)	C177 AND C178 C153 AND C177 AND	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/217 AND E.1/217 AND		
10.4.3.8	8.1	information available INPUT (Support of Text Attrib Text attribute– left alignment	oute) Rel-13	C177 AND C178 C153 AND C177 AND C178	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111		
10.4.3.8	GET	information available INPUT (Support of Text Attrib Text attribute– left alignment Text attribute – center	oute)	C177 AND C178 C153 AND C177 AND C178	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111 E.1/19 AND		
10.4.3.8	8.1	information available INPUT (Support of Text Attrib Text attribute– left alignment	oute) Rel-13	C177 AND C178 C153 AND C177 AND C178 C154 AND C177 AND	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND		
10.4.3.8	8.1	information available INPUT (Support of Text Attrib Text attribute– left alignment Text attribute – center	oute) Rel-13	C177 AND C178 C153 AND C177 AND C178	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/217 AND E.1/217 AND E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/218 AND		
10.4.3.8	8.1	information available INPUT (Support of Text Attrib Text attribute– left alignment Text attribute – center	oute) Rel-13	C177 AND C178 C153 AND C177 AND C178 C154 AND C177 AND	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/218 AND E.1/218 AND		
10.4.3.8	8.1	information available INPUT (Support of Text Attrib Text attribute– left alignment Text attribute – center alignment	oute) Rel-13	C177 AND C178 C153 AND C177 AND C178 C154 AND C177 AND	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/218 AND E.1/218 AND E.1/218 AND E.1/2110 AND		
10.4.3.8	8.1 8.2	information available INPUT (Support of Text Attrib Text attribute– left alignment Text attribute – center	Rel-13	C177 AND C178 C153 AND C177 AND C178 C154 AND C177 AND C177 AND C178	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/217 AND E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/218 AND E.1/218 AND		
10.4.3.8	8.1 8.2	information available INPUT (Support of Text Attrib Text attribute – left alignment Text attribute – center alignment Text attribute – right	Rel-13	C177 AND C178 C153 AND C177 AND C178 C154 AND C177 AND C178 C178	E.1/110 AND E.1/111 E.1/19 AND E.1/124 AND E.1/217 AND E.1/217 AND E.1/111 E.1/19 AND E.1/124 AND E.1/218 AND E.1/218 AND E.1/218 AND E.1/218 AND E.1/218 AND		

ĺ					E.1/111			
	8.4	Text attribute – large font	Rel-13	C157 AND	E.1/19 AND			
		size		C156 AND	E.1/124 AND			
				C177 AND	E.1/221 AND			
				C178	E.1/220 AND			
					E.1/110 AND			
	0.5	Tout attribute amalifort	Dol 12	C158 AND	E.1/111			
	8.5	Text attribute – small font size	Rel-13	C158 AND	E.1/19 AND E.1/124 AND			
		SIZE		C130 AND C177 AND	E.1/222 AND			
				C178	E.1/220 AND			
					E.1/110 AND			
					E.1/111			
	8.6	Text attribute – bold on	Rel-13	C160 AND	E.1/19 AND			
				C159 AND	E.1/124 AND			
				C177 AND C178	E.1/225 AND E.1/226 AND			
				0178	E.1/110 AND			
					E.1/111			
	8.7	Text attribute – italic on	Rel-13	C161 AND	E.1/19 AND			
				C159 AND	E.1/124 AND			
				C177 AND	E.1/225 AND			
				C178	E.1/227 AND			
					E.1/110 AND E.1/111			
	8.8	Text attribute – underlined	Rel-13	C162 AND	E.1/11 AND			
1	0.0	on	1701-19	C159 AND	E.1/124 AND			
		011		C177 AND	E.1/225 AND			
				C178	E.1/228 AND			
					E.1/110 AND			
					E.1/111			
	8.9	Text attribute –	Rel-13	C163 AND	E.1/19 AND			
		strikethrough on		C159 AND C177 AND	E.1/124 AND			
				C177 AND C178	E.1/225 AND E.1/229 AND			
				0178	E.1/110 AND			
					E.1/111			
	8.10	Text attribute – foreground	Rel-13	C164 AND	E.1/19 AND			
		and background colours		C159 AND	E.1/124 AND			
				C177 AND	E.1/230 AND			
				C178	E.1/231 AND			
					E.1/110 AND E.1/111			
10.4.3.9	GFT	NPUT (UCS2 display in Chir	nese)		L.1/111	l		
	9.1	Text string - UCS2 coding	Rel-13	C143 AND	E.1/19 AND			
		in Chinese		C177 AND	E.1/15 AND			
				C178	E.1/110 AND			
	0.0	-	D 140	0440 410	E.1/111			
	9.2	Text string - max length	Rel-13	C143 AND C177 AND	E.1/19 AND E.1/15 AND			
		UCS2 coding in Chinese		C177 AND C178	E.1/110 AND			
					E.1/111			
10.4.3.10		NPUT (UCS2 entry in Chines	se)	<u> </u>			<u> </u>	
		Character set from UCS2;	Rel-13	C142 AND	E.1/19 AND			
		Chinese characters		C177 AND	E.1/14 AND			
				C178	E.1/110 AND			
	10.2	Character set from UCS2;	Rel-13	C142 AND	E.1/111 E.1/19 AND			
1	10.2	max length; Chinese	IVEI-19	C142 AND C177 AND	E.1/19 AND E.1/14 AND			
		characters		C177 AND	E.1/110 AND			
		0.10.0010			E.1/111			
10.4.3.11	GET I	NPUT (UCS2 display in Kata	akana)					
1	11.1	Text string - UCS2 coding	Rel-13	C145 AND	E.1/19 AND	_		
		in Katakana		C177 AND	E.1/15 AND			
1				C178	E.1/110 AND E.1/111			
1	11 2	Text string - max length	Rel-13	C145 AND	E.1/111			
1		UCS2 coding in Katakana		C177 AND	E.1/15 AND			
1				C178	E.1/110 AND			
					E.1/111			
10.4.3.12		NPUT (UCS2 entry in Kataka		1		1		
	12.1	Character set from UCS2;	Rel-13	C144 AND	E.1/19 AND			
1		Katakana		C177 AND C178	E.1/14 AND E.1/110 AND			
1				0170	E.1/110 AND			
1	12.2	Character set from UCS2;	Rel-13	C144 AND	E.1/19 AND			
L						1	I.	

	max length; Katakana		C177 AND C178	E.1/14 AND E.1/110 AND	
				E.1/111	
		D-140		E 4/00	
		Rei-13	IVI	E.1/20	
		illic)			
			C118 AND	F 1/21 AND	TCEP001
	occi diopidy in cyriiio	1101 10	C179	E.1/15 AND	102.001
				E.1/110	
PLAY	TONE (Display of icons)				
3.1	Basic icon; self-	Rel-13	C108 AND	E.1/21 AND	TCEP001
3.2		Rel-13			TCEP001
2.2	Colour icon colf	Dol 12			TCEP001
3.3		Kei-13	-	-	I CEPOUT
3.4		Rel-13			TCEP001
0.4		1101 10			102,001
PLAY		bute)			
	Text attribute – left	Rél-13	C153 AND	E.1/21 AND	TCEP001
	alignment		C179	E.1/124 AND	
4.0	T	D 140	0454 4110		TOFFOOA
4.2		Rel-13			TCEP001
	alignment		C179		
4.3	Text attribute – right	Rel-13	C155 AND		TCEP001
	alignment		C179	E.1/124 AND	
				E.1/219 AND	
				E.1/110	
4.4	_	Rel-13			TCEP001
	size				
			C179		
4.5	Text attribute – small font	Rel-13	C158 AND		TCEP001
1.0	size	1101 10	C156 AND	E.1/124 AND	102.001
			C179	E.1/222 AND	
				E.1/220 AND	
4.6	Text attribute – bold on	Rel-13			TCEP001
			0179		
4.7	Text attribute - italic on	Rel-13	C161 AND	E.1/21 AND	TCEP001
			C159 AND	E.1/124 AND	
			C179		
4.0	Toyt attribute underlined	Dol 12	C162 AND		TCEP001
4.0		Kei-13			ICEPOOT
				E.1/228 AND	
				E.1/110	
4.9	Text attribute –	Rel-13			TCEP001
	strikethrough on				
			C179		
4.10	Text attribute- foreground	Rel-13	C164 AND		TCEP001
1	and background colours		C165 AND	E.1/124 AND	
			C179	E.1/230 AND	
]				
DI AN	TONE (HOCO discrission Of the			E.1/110	
			C142 AND	E 1/21 AND	TCEDO04
5.1	0002 display in Uninese	Rei-13			TCEP001
			0179		
PLAY	TONE (UCS2 display in Kat	akana)	1		
6.1	UCS2 display in Katakana	Rel-13	C145 AND	E.1/21 AND	TCEP001
			1 0		i l
"	ĺ		C179	E.1/15 AND E.1/110	
	1.1 PLAY	MORE TIME 1.1 MORE TIME PLAY TONE PLAY TONE (UCS2 display in Cyrillic PLAY TONE (Display of icons) 3.1 Basic icon; self-explanatory 3.2 Basic icon; non self-explanatory 3.3 Colour icon; self-explanatory 3.4 Colour icon; non self-explanatory PLAY TONE (Support of Text Attri 4.1 Text attribute – left alignment 4.2 Text attribute – right alignment 4.3 Text attribute – large font size 4.4 Text attribute – small font size 4.5 Text attribute – bold on 4.7 Text attribute – bold on 4.8 Text attribute – italic on 4.9 Text attribute – small font size 4.10 Text attribute – small font on 4.10 Text attribute – small font on 4.11 Text attribute – small font on 4.21 Text attribute – small font on 4.31 Text attribute – small font on 4.42 Text attribute – small font on 4.5 Text attribute – small font on 4.6 Text attribute – small font on 4.7 Text attribute – small font on 4.8 Text attribute – small font on 4.9 Text attribute – small font on	MORE TIME 1.1 MORE TIME Rel-13 PLAY TONE CUS2 display in Cyrillic) 2.1 UCS2 display of icons) 3.1 Basic icon; self- Rel-13 explanatory 3.2 Basic icon; non self- Rel-13 explanatory 3.3 Colour icon; self- Rel-13 explanatory 3.4 Colour icon; non self- Rel-13 explanatory PLAY TONE (Support of Text Attribute) 4.1 Text attribute - left Rel-13 alignment 4.2 Text attribute - right Rel-13 alignment 4.3 Text attribute - large font Rel-13 alignment 4.4 Text attribute - small font Rel-13 size 4.5 Text attribute - bold on Rel-13 4.6 Text attribute - bold on Rel-13 4.7 Text attribute - italic on Rel-13 4.8 Text attribute - italic on Rel-13 4.9 Text attribute - moderlined Rel-13 4.9 Text attribute - moderlined Rel-13 4.10 Text attribute - foreground Rel-13 4.10 Text attribute - foreground Rel-13 4.11 Text attribute - foreground Rel-13 4.12 Text attribute - moderlined Rel-13 4.13 Text attribute - moderlined Rel-13 4.14 Text attribute - moderlined Rel-13 4.15 Text attribute - moderlined Rel-13 4.16 Text attribute - moderlined Rel-13 4.17 Text attribute - moderlined Rel-13 4.18 Text attribute - moderlined Rel-13 4.19 Text attribute - moderlined Rel-13 4.10 Text attribute - moderlined Rel-13 4.11 Text attribute - moderlined Rel-13 4.12 Text attribute - moderlined Rel-13 4.13 Text attribute - moderlined Rel-13 4.14 Text attribute - moderlined Rel-13 4.15 Text attribute - moderlined Rel-13 4.16 Text attribute - moderlined Rel-13 4.17 Text attribute - moderlined Rel-13 4.18 Text attribute - moderlined Rel-13 4.19 Text attribute - moderlined Rel-13 4.10 Text attribute - moderlined Rel-13 4.11 Text attribute - moderlined Rel-13 4.12 Text attribute - moderlined Rel-13 4.13 Text attribute - moderlined Rel-13 4.14 Text attribute - moderlined Rel-13 4.15 Text attribute - moderlin	MORE TIME	MORE TIME

	1.1		Rel-13		M	E.1/221.1			
10.4.7	REFF								
10.4 .7.1		RESH (Normal)			· · · · · · · · · · · · · · · · · · ·	_	-		
	1.3	USIM initialization and file	Rel-13		C177 AND	E.1/24 AND			
		change notification of ADN			C178	E.1/110 AND			
	1.5	UICC reset	Rel-13		M	E.1/111 E.1/24			
10.4 .7. 3		RESH (Steering of roaming)	Kel-13		IVI	L.1/24			
10.11110		Steering of roaming;	Rel-13		C222	E.1/24 AND	E-USS OR		
		E-UTRAN				E.1/135 AND	NB-SS		
						E.1/236			
	3.4	Steering of roaming;	Rel-16		C231	E.1/24 AND	NG-SS only		
40.47.4	DEEE	NG-RAN				E.1/236			
10.4 .7. 4		RESH (AID) Refresh with AID;	Dal 12		C202	T 4/24	E LICC only	1	T
	4.1	E-UTRAN	Rel-13		C202	E.1/24	E-USS only		
10.4 .7. 5	REFF	RESH (IMSI changing proced	ure. E-UTF	RAN)		ı			
		UICC Reset for IMSI	Rel-13	,	C222	E.1/24	E-USS OR		
		Changing procedure;					NB-SS		
		E-UTRAN							
	5.2	3G Session Reset for IMSI	Rel-13		C222	E.1/24	E-USS OR		
		Changing procedure;				1	NB-SS		
10.4 .7. 6	DEEE	E-UTRAN RESH (IMSI changing proced	uro NC D	1 (N)		<u> </u>		<u> </u>	
10.4.7.0		UICC Reset for IMSI	Rel-16	111)	C231	E.1/24 OR	NG-SS only		
	0.1	Changing procedure; NG-	1101-10		0201	(E.1/24 AND	.10 00 01119		1
		RAN				E.1/256)			<u> </u>
	6.2	3G Session Reset for IMSI	Rel-16		C231	E.1/24 OR	NG-SS only		
		Changing procedure; NG-				(E.1/24 AND			
		RAN	D 1 10		0001	E.1/256)	110.00		
	6.3	REFRESH, USIM	Rel-16		C231	E.1/24 OR	NG-SS only		
		Application Reset for IMSI Changing procedure, NG-				(E.1/24 AND E.1/256)			
		RAN				L. 1/230)			
	6.4	REFRESH, reject 3G	Rel-16		C231	E.1/24 OR	NG-SS only		
		Session Reset for IMSI				(E.1/24 AND	,		
		Changing procedure				E.1/256)			
		during mobile originated							
10.4 .7. 7	DEEE	call, NG-RAN RESH (SUPI_NAI changing p	rocoduro I	IC DANI)					
10.4.7.7	7.1	UICC Reset for SUPI_NAI	Rel-16	NG-KAIN)	C231 AND	E.1/24	NG-SS only		
	/	Changing procedure; NG-	IXCI IO		C233	L. 1/24	140 00 only		
		RAN							
	7.2	3G Session Reset for	Rel-16		C231 AND	E.1/24	NG-SS only		
		SUPI_NAI Changing			C233				
	7.0	procedure; NG-RAN	D-1.40		COO4 AND	E 4/04	NO CO amb		
	7.3	REFRESH, USIM Application Reset for	Rel-16		C231 AND C233	E.1/24	NG-SS only		
		SUPI_NAI Changing			0233				
		procedure, NG-RAN							
	7.4	REFRESH, reject 3G	Rel-16		C231 AND	E.1/24	NG-SS only		
		Session Reset for			C233	1			
		SUPI_NAI Changing				1			
		procedure during mobile originated call, NG-RAN				1			
10.4 .7. 8	RFFF	RESH (USIM File Change No	tification fo	r Generic R	ootstrapping Pi	rocedure Reque	st. NG-RAN)	1	1
70. 7110		REFRESH, USIM File	Rel-15	. Conone D	C238	E.1/24 OR	NG-SS only		
	0	Change Notification for				E.1/173	12 20 0,		1
		Generic Bootstrapping				1			
		Procedure Request,				1			
40.40	057	NG-RAN	MENULOS:	FOTION				<u> </u>	<u> </u>
10.4.8 10.4 .8.1		UP MENU and ENVELOPE I UP MENU (Normal) and ENV			CTION				
10.4 .0.1		Set up; menu selection;	Rel-13	LINU SELEC	C177 AND	E.1/30 AND			
	1.1	replace and remove menu	1101-10		C177 AND	E.1/4 AND			1
		- F]	E.1/110 AND			
						E.1/111			<u> </u>
	1.2	Large menu	Rel-13		C177 AND	E.1/30 AND	·		
					C178	E.1/4 AND			
						E.1/110 AND			
10.4.8.2	QET!	LUP MENU (Help request sup	oort) and E	NIVELODE	MENITI SELEC.	E.1/111		<u> </u>	<u> </u>
10.4.0.2		Help information	Rel-13	INVLLOFE	C107 AND	E.1/30 AND			
	۲.۱	orp information	1.01 10		C177 AND	E.1/4 AND			
					C178	E.1/110 AND			<u> </u>

10.4.8.3	SETI	JP MENU (Help request supp	oort) and ENIVELO	PE MENI I SELECT	E.1/111	
10.4.6.3	3.1	Next action indicator	Rel-13	C177 AND	E.1/30 AND	
				C178	E.1/110 AND E.1/111	
10.4.8.4		JP MENU (Display of icons)				
	4.1	Basic icon; not self- explanatory	Rel-13	C172 AND C177 AND	E.1/30 AND E.1/110 AND	
		,		C178	E.1/111	
	4.2	Basic icon; self- explanatory	Rel-13	C172 AND C177 AND	E.1/30 AND E.1/110 AND	
		, ,		C178	E.1/111	
10.4.8.5		JP MENU (Soft keys support Soft key preferred	and ENVELOPE Rel-13	MENU SELECTION C112 AND	N E.1/30 AND	
	5.1	Soft key preferred	Rei-13	C177 AND	E.1/74 AND	
				C178	E.1/110 AND E.1/111	
10.4.8.6	SETU	I JP MENU (Support of Text A	ttribute) and ENVE	L ELOPE MENU SEL		
		Text attribute – left	Rel-13	C153 AND	E.1/30 AND	
		alignment		C177 AND C178	E.1/124 AND E.1/217 AND	
					E.1/110 AND	
	6.2	Text attribute – center	Rel-13	C154 AND	E.1/111 E.1/30 AND	
	0.2	alignment		C177 AND	E.1/124 AND	
				C178	E.1/218 AND E.1/110 AND	
					E.1/111	
	6.3	Text attribute – right alignment	Rel-13	C155 AND C177 AND	E.1/30 AND E.1/124 AND	
		angrimoni		C178	E.1/219 AND	
					E.1/110 AND E.1/111	
	6.4	Text attribute – large font	Rel-13	C157 AND	E.1/30 AND	
		size		C156 AND C177 AND	E.1/124 AND E.1/221 AND	
				C177 AND C178	E.1/221 AND E.1/220 AND	
					E.1/110 AND	
	6.5	Text attribute – small font	Rel-13	C158 AND	E.1/111 E.1/30 AND	
		size		C156 AND	E.1/124 AND	
				C177 AND C178	E.1/222 AND E.1/220 AND	
					E.1/110 AND	
	6.6	Text attribute – bold on	Rel-13	C160 AND	E.1/111 E.1/30 AND	
				C159 AND	E.1/124 AND	
				C177 AND C178	E.1/225 AND E.1/226 AND	
					E.1/110 AND	
	6.7	Text attribute – italic on	Rel-13	C161 AND	E.1/111 E.1/30 AND	
	0.7	Tox dansate hallo on	110.10	C159 AND	E.1/124 AND	
				C177 AND C178	E.1/225 AND E.1/227 AND	
					E.1/110 AND	
	6.8	Text attribute – underlined	Rel-13	C162 AND	E.1/111 E.1/30 AND	
	0.0	on attribute underlined	Nor 13	C159 AND	E.1/124 AND	
				C177 AND C178	E.1/225 AND E.1/228 AND	
				0170	E.1/110 AND	
	6.9	Text attribute –	Rel-13	C163 AND	E.1/111 E.1/30 AND	
	0.9	strikethrough on	1761-13	C159 AND	E.1/30 AND E.1/124 AND	
				C177 AND C178	E.1/225 AND E.1/229 AND	
				0170	E.1/110 AND	
	0.40	Tout office for the state of th	Dol 40	C4C4 AND	E.1/111	
	6.10	Text attribute – foreground and background colours	Rel-13	C164 AND C165 AND	E.1/30 AND E.1/124 AND	
				C177 AND	E.1/230 AND	
				C178	E.1/231 AND E.1/110 AND	
					E.1/111	
10.4.8.7	SETU	JP MENU (UCS2 display in 0	Cyrillic) and ENVEL	LOPE MENU SELE	CTION	

•				T	T	1	1
	7.1	UCS2 display in Cyrillic	Rel-13	C118 AND	E.1/39 AND		
				C177 AND	E.1/15 AND		
				C178	E.1/110 AND		
10.4.8.8	CETI	ID MENUL/LICES display in	Chinaga) a		E.1/111	<u> </u>	
10.4.6.6	8.1	JP MENU (UCS2 display in UCS2 display in Chinese	Rel-13	C143 AND	E.1/39 AND	I	
	0.1	0C32 display in Crimese	IVEL-13	C143 AND	E.1/15 AND		
				C178	E.1/110 AND		
					E.1/111		
10.4.8.9	SET	JP MENU (UCS2 display in I	Katakana)	and ENVELOPE MENU S	ELECTION		
	9.1	UCS2 display in Katakana	Rel-13	C145 AND	E.1/39 AND		
				C177 AND	E.1/15 AND		
				C178	E.1/110 AND		
10.10	CELE	CT ITEM			E.1/111		
10.4.9 10.4.9.1		CT ITEM (Mandatory feature	oc for ME c	upporting SELECT ITEM			
10.4.3.1		Mandatory features	Rel-13	C177 AND	E.1/25 AND	T	
	'	Wandatory Teatures	INCITIO	C178	E.1/110 AND		
					E.1/111		
	1.2	Large menu	Rel-13	C177 AND	E.1/25 AND		
				C178	E.1/110 AND		
					E.1/111		
	1.3	Call option	Rel-13	C177 AND	E.1/25 AND		
				C178	E.1/110 AND		
	1.4	Backward move	Rel-13	C177 AND	E.1/111 E.1/25 AND	1	
	1.4	Backward move	Rei-13	C177 AND C178	E.1/25 AND E.1/110 AND		
				0176	E.1/111		
	1.5	"Y" successful	Rel-13	C177 AND	E.1/25 AND		
				C178	E.1/110 AND		
					E.1/111		
	1.6	Large menu	Rel-13	C177 AND	E.1/25 AND		
				C178	E.1/110 AND		
10 100	0515	LOT ITEM (N	()		E.1/111		
10.4.9.2		CT ITEM (Next action support		0477 AND	LE 4/05 AND	ı	
	2.1	Next action indicator	Rel-13	C177 AND C178	E.1/25 AND E.1/110 AND		
				0176	E.1/111		
10.4.9.3	SELE	CT ITEM (Default item supp	ort)			l	<u> </u>
	3.1	Default selected	Rel-13	C177 AND	E.1/25 AND		
				C178 AND	E.1/110 AND		
	L			C194	E.1/111		
10.4.9.4		CT ITEM ((Help request sup		C407 AND	E 4/05 AND	I	1
	4.1	Help request	Rel-13	C107 AND C177 AND	E.1/25 AND E.1/110 AND		
				C177 AND	E.1/111		
10.4.9.5	SELE	CT ITEM (Icons support)		1 0170		l .	l.
			Rel-13	C172 AND	E.1/25 AND		
		explanatory		C177 AND	E.1/110 AND		
				C178	E.1/111		
	5.2	Basic icon; self-	Rel-13	C172 AND	E.1/25 AND		
		explanatory		C177 AND	E.1/110 AND		
10.4.9.6	CELF	L CT ITEM (Presentation style	1	C178	E.1/111	<u> </u>	L
10.4.9.0	6.1	Presentation as a choice	Rel-13	C177 AND	E.1/25 AND		
	0.1	of navigation options	1761-19	C177 AND	E.1/110 AND		
		gallon optiono			E.1/111		
	6.2	Presentation as a choice	Rel-13	C177 AND	E.1/25 AND		
		of data values		C178	E.1/110 AND		
					E.1/111		
10.4.9.7		CT ITEM (Soft keys support				1	,
	7.1	Soft keys	Rel-13	C112 AND	E.1/25 AND		
				C177 AND	E.1/73 AND		
				C178	E.1/110 AND E.1/111		
10.4.9.8	SFLF	CT ITEM (Support of "No res	sponse from	n user")			<u> </u>
		No Response from user	Rel-13	C120 AND	E.1/25 AND		
	5	3	1.0. 10	C177 AND	E.1/110 AND		
				C178	E.1/111		
10.4.9.9	SELE	CT ITEM (Support of Text A					
	9.1	Text attribute – left	Rel-13	C153 AND	E.1/25 AND		
		alignment		C177 AND	E.1/124 AND		
				C178	E.1/217 AND		
					E.1/110 AND E.1/111		
I			<u> </u>	1 1	<u> </u>	1	<u> </u>

I	0.2	Text attribute – center	Rel-13	C154 Al	ND E.1/25 AND		1	
	9.2	alignment	Kel-13	C177 A				
				C178				
					E.1/110 AND			
	0.0	T	D 140	0455.41	E.1/111			
	9.3	Text attribute – right	Rel-13	C155 Al C177 Al				
		alignment		C177 Al	·			
				0170	E.1/110 AND			
					E.1/111			
	9.4	Text attribute – large font	Rel-13	C157 Al				
		size		C156 Al				
				C177 Al C178				
				0170	E.1/220 AND E.1/110 AND			
					E.1/111			
	9.5	Text attribute – small font	Rel-13	C158 Al				
		size		C156 Al				
				C177 Al				
				C178	E.1/220 AND E.1/110 AND			
					E.1/111			
	9.6	Text attribute – bold on	Rel-13	C160 Al				
				C159 Al				
				C177 A				
				C178				
					E.1/110 AND E.1/111			
	9.7	Text attribute – italic on	Rel-13	C161 A		+		
	0.7	Toxic dittribute Titalle 611	1101 10	C159 Al				
				C177 Al				
				C178				
					E.1/110 AND			
	9.8	Text attribute – underline	Rel-13	C162 A	E.1/111 ND E.1/25 AND			
	9.0	on	IVEI-13	C159 Al				
				C177 A				
				C178				
					E.1/110 AND			
	9.9	Text attribute –	Rel-13	C163 Al	E.1/111 ND E.1/25 AND			
	9.9	strikethrough on	IVEI-13	C159 A				
		ountoun ought on		C177 Al				
				C178				
					E.1/110 AND			
	0.10	Text attribute – foreground	Rel-13	C164 Al	E.1/111 ND E.1/25 AND			
	9.10	and background colours	Kel-13	C165 Al				
		and buonground colours		C177 A				
				C178	E.1/231 AND			
					E.1/110 AND			
10 1 0 10	CELE	CT ITEM (LICES display in C	'a millio\		E.1/111			
10.4.9.10		CT ITEM (UCS2 display in C UCS2 in Cyrillic	Rel-13	C118 Al	ND E.1/39 AND			
	10.1	characters; 0x80 UCS2	1.01-10	C177 A				
		coding		C178				
					E.1/111			
	10.2	UCS2 in Cyrillic	Rel-13	C118 Al				
		characters; 0x81 UCS2 coding		C177 Al C178				
		county		61/8	E.1/110 AND E.1/111			
	10.3	UCS2 in Cyrillic	Rel-13	C118 Al		†		
		characters; 0x82 UCS2		C177 Al	ND E.1/15 AND			
		coding		C178				
10.40.44	CELE	CT ITEM (LICCO diamination in C	'hinaac'		E.1/111	L		
10.4.9.11		CT ITEM (UCS2 display in C UCS2 display in Chinese	Rel-13	C143 Al	ND E.1/25 AND			
	' ' ' '	OOOZ display III Officese	1/61-19	C143 AI				
				C178				
					E.1/111			
10.4.9.12		CT ITEM (UCS2 display in K						
	12.1	UCS2 in Katakana	Rel-13	C145 Al				
		characters; 0x80 UCS2 coding		C177 Al C178				
		Journa		0176	E.1/110 AND			
	12.2	UCS2 in Katakana	Rel-13	C145 Al				
•		*	-	· · · · · · · · · · · · · · · · · · ·	•	*		

		characters; 0x81 UCS2			C177 AND	E.1/15 AND			
		coding			C178	E.1/110 AND E.1/111			
	12.3	UCS2 in Katakana characters; 0x82 UCS2 coding	Rel-13		C145 AND C177 AND C178	E.1/25 AND E.1/15 AND E.1/110 AND E.1/111			
10.4.10		SHORT MESSAGE							
10.4 .10.7		SHORT MESSAGE (IMS) SMS-over-IP; E-UTRAN	Rel-13		C196	E.1/26 AND	E-USS only	TCEP001	
10.4.10.8		SHORT MESSAGE (Over S		TD A NI)	C196	E.1/26 AND E.1/110	E-055 Only	ICEPOOT	
10.4.10.0		Send Short Message over SGs; E-UTRAN	Rel-13	TIVAIV).	C220	E.1/26 AND E.1/110	E-USS OR NB-SS	TCEP001	
10.4.11	SEND								
10.4.12		USSD							
10.4.13		JP CALL							
10.4.14		ING OFF							
		POLLING OFF; E-UTRAN	Rel-13		C222	E.1/23	E-USS OR NB-SS		
		POLLING OFF, NG-RAN	Rel-13		C231	E.1/23	NG-SS only		
10.4.15		/IDE LOCAL INFORMATION				E 4/04		1	
1		IMEI	Rel-13		<u>M</u>	E.1/31			
		Date; time and time zone	Rel-13 Rel-13		M C217	E.1/59 E.1/68			
		Language setting IMEISV	Rel-13		M	E.1/68 E.1/143			
		Network Search Mode	Rel-13		M	E.1/143 E.1/144	E-USS		
		Charge State of the Battery	Rel-13		C139	E.1/170	2 000		
	1.14	Access Technology; E-UTRAN	Rel-13		C222	E.1/72	E-USS OR NB-SS		
		E-UTRAN Intra-Frequency Measurements	Rel-13		C190	E.1/183	E-USS only		
		E-UTRAN Inter-Frequency Measurements	Rel-13		C190	E.1/183	E-USS only		
		E-UTRAN Local Info (MCC; MNC; TAC & E- UTRAN Cell ID)	Rel-13		C222	E.1/31 AND E.1/135	E-USS OR NB-SS		
		Discovery of surrounding CSG cells	Rel-13		C195	E.1/242	E-USS only		
		NG-RAN Local Info (MCC; MNC; TAC & NG-RAN Cell ID)	Rel-15		C231	E.1/31	NG-SS only		
		Access Technology; NG-RAN	Rel-15		C231	E.1/72	NG-SS only		
		Slices Information	Rel-16		C231	E.1/284	NG-SS only		
		Slices Information; no served Slice	Rel-16		C231	E.1/284	NG-SS only		
		Slices Information; several served Slices	Rel-16		C231	E.1/284	NG-SS only		
		NG-RAN Timing advance PROVIDE LOCAL	Rel-16 Rel-16		C231 C231	E.1/305 E.1/305	NG-SS only NG-SS only	 	
	1.20	INFORMATION; NG-RAN Intra-Frequency Measurements	Kel-10		C231	E.1/303	NG-33 Only		
	1.29	PROVIDE LOCAL INFORMATION; NG-RAN Inter-Frequency Measurements	Rel-16		C231	E.1/305	NG-SS only		
	1.30	PROVIDE LOCAL INFORMATION; CAG information list	Rel-17		C235	E.1/287	NG-SS only		
	1.31	PROVIDE LOCAL INFORMATION, Satellite NG-RAN PrimaryTiming advance	Rel-17		C236	E.1/305	SAT-NG-SS only		
		PROVIDE LOCAL INFORMATION, Access Technology, Satellite NG- RAN	Rel-17		C236	E.1/72	SAT-NG-SS only		
10.4.16		JP EVENT LIST							
10.4.17		ORM CARD APDU							
10.4 .17.1		ORM CARD APDU (Normal)			0400	E 4/E4		1	
	1.1	Additional card inserted; Select MF and Get	Rel-13		C109	E.1/51			

		Response							
	1.2	Additional card inserted;	Rel-13		C109	E.1/51			
		Select DF GSM; Select							
		EF _{PLMN} ; Update Binary;							
	1.2	Read Binary on EF _{PLMN}	Dol 12		C100	E.1/51		 -	
	1.3	Additional card inserted; card powered off	Rel-13		C109	E.1/51			
	1.4	No card inserted; card	Rel-13	 	C109	E.1/51		+	
	1.4	powered off	Kel-13		C109	L.1/31			
	1.5	Invalid card reader	Rel-13		C109	E.1/51		+	
	1.0	identifier	110110		0100	2.1/01			
10.4.17.2	PERE	FORM CARD APDU (Detach	able card re	eader)					
		Detachable reader	Rel-13]	C116	E.1/51			
10.4.18		ER OFF CARD				=: ;			
10.4.18.1	POW	ER OFF CARD (Normal)							
		Additional card inserted	Rel-13		C109	E.1/50			
10.4.18.2	POW	ER OFF CARD (Detachable	card reade	r)					
	2.1	Detachable card reader	Rel-13		C116	E.1/50			
10.4.19	POW	ER ON CARD							
10.4.19.1	POW	ER ON CARD (Normal)							
	1.1	Additional card inserted	Rel-13		C109	E.1/49			
10.4.19.2	POW	ER ON CARD (Detachable of)					
		Detachable card reader	Rel-13		C116	E.1/49			
10.4.20		READER STATUS							
10.4.20.1		READER STATUS (Normal)				T =			1
	1.1	Additional card inserted;	Rel-13		C109	E.1/52			
	4.0	card powered	D-140		0400	E 4/50			
	1.2	Additional card inserted;	Rel-13		C109	E.1/52			
40.4.00.0	OFT	card not powered	hla aand na						
10.4.20.2		READER STATUS (Detacha		ader)	C116	T 1/F2		1	l
10.4.21	2.1	Detachable card reader R MANAGEMENT and ENV	Rel-13	MED EVDID	C116	E.1/52			
10.4.21.1		R MANAGEMENT (Normal)	ELOFE III	VIER EXFIR	ATION				
10.4.21.1	1.1	Start timer 1 several times:	Rel-13	1 1	M	E.1/57 AND			1
	1	get the current value of the			IVI	E.1/58			
		timer and deactivate the				L.1/30			
		timer successfully							
	1.2	,	Rel-13		М	E.1/57 AND			
		get the current value of the				E.1/58			
		timer and deactivate the							
		timer successfully							
	1.3	Start timer 8 several times;	Rel-13		M	E.1/57 AND			
		get the current value of the				E.1/58			
		timer and deactivate the							
		timer successfully							
	1.4	Try to get the current value	Rel-13		M	E.1/57 AND			
		of a timer which is not				E.1/58			
		started: action in contradiction with the							
		current timer state							
	1.5	Try to deactivate a timer	Rel-13		M	E.1/57 AND		+	
	1.5	which is not started: action			IVI	E.1/57 AND E.1/58			
		in contradiction with the				2.1/00			
		current timer state							
	1.6	Start 8 timers successfully	Rel-13		М	E.1/57 AND		+	
		,				E.1/58			
10.4.21.2	ENVE	LOPE TIMER EXPIRATION	(Normal)						
	2.1	Pending proactive UICC	Rel-13		M	E.1/6 AND			
		command		<u> </u>		E.1/57			<u> </u>
	2.2	USIM application toolkit	Rel-13		M	E.1/6 AND	·		
		busy				E.1/57 AND			
						E.1/20			
10.4.22		UP IDLE MODE TEXT							
10.4.23		AT COMMAND							
10.4.23.1		AT COMMAND (Normal)	D 1 12	, , , , , , , , , , , , , , , , , , , 	0116	F 4/65			
	1.1	No alpha identifier	Rel-13		C110	E.1/62			
	4.0	presented	D-1 40		0440	E 4/00			
	1.2	•	Rel-13		C110	E.1/62			
	4.0	presented	Dol 40		C110 AND	E 4/60 AND		_	
	1.3	Alpha identifier presented	Rel-13		C110 AND	E.1/62 AND			
10.4.23.2	DIINI	AT COMMAND (Icon suppor	<u> </u>		C177	E.1/110		1	
10.4.23.2	2.1	Basic icon; self-	Rel-13		C114 AND	E.1/62 AND		-	
1	۷.۱	explanatory	1761-19		C114 AND C177	E.1/62 AND E.1/110			
	2.2	Colour icon; self-	Rel-13		C173 AND	E.1/62 AND		+	
I		0 0 10 0 11 10 0 11 1 1 1 1 1 1 1 1 1	1.01.10	1	O O . (IND	L. I/OZ AND			1

		explanatory		C177	E.1/110		
	2.3	Basic icon; non self-	Rel-13	C114 AND	E.1/62 AND	1	
		explanatory		C177	E.1/110		
	2.4	Colour icon; non self-	Rel-13	C173 AND	E.1/62 AND		
	2.5	explanatory Basic icon non self-	Rel-13	C177 C110 AND	E.1/110 E.1/62 AND	+	
	2.5	explanatory; no alpha	IXCI-13	C153 AND	E.1/110		
		identifier presented		C177			
10.4.23.3		AT COMMAND (Support of 1			E 4/00 (115		
	3.1	Text attribute – left alignment	Rel-13	C110 AND C154 AND	E.1/62 AND E.1/124 AND		
		aligninent		C177	E.1/217 AND		
ı					E.1/110		
	3.2	Text attribute – center	Rel-13	C110 AND	E.1/62 AND		
İ		alignment		C155 AND C177	E.1/124 AND E.1/218 AND		
İ				CITT	E.1/216 AND		
	3.3	Text attribute – right	Rel-13	C110 AND	E.1/62 AND		
		alignment		C157 AND	E.1/124 AND		
				C156 AND	E.1/219 AND		
	3.4	Text attribute – large font	Rel-13	C177 C110 AND	E.1/110 E.1/62 AND		
	3.4	size	Kel-13	C158 AND	E.1/124 AND		
		0120		C156 AND	E.1/221 AND		
				C177	E.1/220 AND		
		Text attribute – small font	Dal 40	0440 4415	E.1/110		
	3.5	size	Rel-13	C110 AND C160 AND	E.1/62 AND E.1/124 AND		
		0.20		C159 AND	E.1/222 AND		
				C177	E.1/220 AND		
			5 1 10	2442 4115	E.1/110		
	3.6	Text attribute – bold on	Rel-13	C110 AND C161 AND	E.1/62 AND E.1/124 AND		
				C159 AND	E.1/124 AND E.1/225 AND		
				C177	E.1/226 AND		
					E.1/110		
	3.7	Text attribute – italic on	Rel-13	C110 AND	E.1/62 AND		
				C162 AND C159 AND	E.1/124 AND E.1/225 AND		
				C177	E.1/227 AND		
					E.1/110		
	3.8	Text attribute – underline	Rel-13	C110 AND	E.1/62 AND		
		on		C163 AND C159 AND	E.1/124 AND E.1/225 AND		
				C139 AND	E.1/228 AND		
					E.1/110		
	3.9	Text attribute –	Rel-13	C110 AND	E.1/62 AND		
		strikethrough on		C164 AND	E.1/124 AND		
				C165 AND C177	E.1/225 AND E.1/229 AND		
				0177	E.1/110		
	3.10	Text attribute – foreground	Rel-13	C110 AND	E.1/62 AND		
		and background colours		C164 AND	E.1/124 AND		
				C165 AND C177	E.1/230 AND E.1/231 AND		
				0177	E.1/231 AND E.1/110		
10.4.23.4		AT COMMAND (UCS2 displa	ay in Cyrillic)	1			· · · · · · · · · · · · · · · · · · ·
		UCS2 display in Cyrillic	Rel-13	C149 AND	E.1/62 AND		
				C177	E.1/15 AND		
10.4.23.5	RUN	 AT COMMAND (UCS2 displa	av in Chinese	5)	E.1/110		
10.7.20.0		UCS2 display in Chinese	Rel-13	C150 AND	E.1/62 AND		
		, .,,		C177	E.1/15 AND		
10 1 22 5		AT 001 11 11 11 11 11 11 11 11 11 11 11 11			E.1/110		
10.4.23.6	KUN A	AT COMMAND (UCS2 display			E 1/62 AND		
	6.1	UCS2 display in Katakana	Rel-13	C151 AND C177	E.1/62 AND E.1/15 AND		
				0117	E.1/110		
10.4.24		DTMF		•	•		
10.4.25		SUAGE NOTIFICATION	D : : :	0.5:			
	1.1	Specific language	Rel-13	C181 AND	E.1/70		
	1.2	notification Non-specific language	Rel-13	C218 C181 AND	E.1/70		
1	1.2	notification	1.01-10	C181 AND	2.1/70		
10.4.26		ICH BROWSER		<u>, </u>			
10.4.26.8	LAUN	CH BROWSER (NG-RAN be	earer)			 	

	8.1	Only NG-RAN bearer	Rel-16	C111 AND	E.1/71 AND	NG-SS only		
		specified and gateway		C231	E.1/98 AND			
		proxy identity			E.1/110 AND			
					E.1/111			
	8.2	Trigger LAUNCH	Rel-16	C111 AND	E.1/71 AND	NG-SS only		
		BROWSER by CALL		C231	E.1/110 AND			
		CONTROL			E.1/111			
	8.3	Trigger LAUNCH	Rel-16	C111 AND	E.1/71 AND	NG-SS only		
		BROWSER by MT Call		C231	E.1/110 AND			
		event		0444 4115	E.1/111	110.00		
	8.4	Trigger LAUNCH	Rel-16	C111 AND	E.1/71 AND	NG-SS only		
		BROWSER during mobile		C231	E.1/110 AND			
	0.5	originated call	Dal 40	C444 AND	E.1/111	NO CO ambi		
	8.5	Trigger LAUNCH	Rel-16	C111 AND	E.1/71 AND	NG-SS only		
		BROWSER during mobile terminated call		C231	E.1/110 AND E.1/111			
10.4.27	OPEN	N CHANNEL			L. 1/ 1 1 1			
10.4.27.6		CHANNEL (related to E-UT	·D Δ NI)					
10.4.27.0	6.1	Immediate link	Rel-13	C224	E.1/89 AND	E-USS OR	ı	ı
	0.1	establishment; E-UTRAN;	Kel-13	0224	E.1/135	NB-SS		
		bearer type '02'			L. 1/ 133	ND-00		
	6.2	Immediate link	Rel-13	C182	E.1/89 AND	E-USS only		
	0.2	establishment; E-UTRAN;		0102	E.1/135			
		bearer type '0B'			,.50			
	6.3	E-UTRAN; bearer type	Rel-13	C224	E.1/89 AND	E-USS OR		
	1	'02'; immediate link			E.1/110 AND	NB-SS		
		establishment with			E.1/111 AND			
		Network Access Name;			E.1/135			
		with alpha identifier						
	6.4	E-UTRAN bearer type '03';	Rel-13	C182 AND	E.1/89 AND	E-USS OR		
		immediate link		C177	E.1/110 AND	NB-SS		
		establishment with alpha			E.1/111 AND			
		identifier; user did not			E.1/135			
		accept the proactive						
		command						
	6.5	E-UTRAN; bearer type '03'	Rel-13	C182	E.1/89 AND	E-USS OR		
		- default EPS bearer;			E.1/135	NB-SS		
		immediate link						
	0.0	establishment	Dalata	0000	E 4/0 AND	E 1100		
	6.6	BIP is not a 3GPP PS data	Rel-14	C228	E.1/2 AND	E-USS		
		off exempt service			E.1/89 AND E.1/135			
	6.7	BIP is a 3GPP PS data off	Rel-14	C228	E.1/2 AND	E-USS		
	0.7	exempt service	Kel-14	G220	E.1/89 AND	E-033		
		exempt service			E.1/135			
	6.8	Maximum number of open	Rel-14		E.1/89 AND	E-USS OR		
	0.0	channel requests	IXCI-14		E.1/135	NB-SS		
10.4.27.7	OPEN	N CHANNEL (UICC Access to	a IMS)		L. 1/ 100	110 00		
10.4.27.7	7.1	OPEN CHANNEL for IMS;	Rel-13	C207	E.1/33 AND	E-USS		
	'''	IARI list stored on the	1101 10	0201	E.1/89 AND	2 000		
		USIM			E.1/247 AND			
					E.1/249			
10.4.27.8	OPEN	N CHANNEL (related to NG-F	RAN)				1	
		NG-RAN bearer type '03' -	Rel-15	C232	E.1/89 AND	NG-SS only		
		default PDU Session;			E.1/281			
		immediate link						
		establishment						
	8.2	NG-RAN bearer type '0C';	Rel-15	C232	E.1/89 AND	NG-SS only		
1		immediate link			E.1/281			
		establishment						
	8.3	NG-RAN bearer type '0C';	Rel-15	C232	E.1/89 AND	NG-SS only		
		after receiving policy			E.1/281			
		update for URSP from						
	0.1	network	Del 45	0000	E 4/00 AND	NO CO I		
	8.4	NG-RAN bearer type '0C';	Rel-15	C232	E.1/89 AND	NG-SS only		
		PDU Session is already			E.1/281			
		available for the same						
	0.5	DNN	Dol 15	Cooo	E 1/00 AND	NC CC anti-		1
	8.5	NG-RAN bearer type '02' –	Rel-15	C232	E.1/89 AND E.1/281	NG-SS only		
1		default PDU Session; immediate link			□.1/201			
		establishment						
	8.6	NG-RAN bearer type '0B' –	Rel-15	C232	E.1/89 AND	NG-SS only		
	0.0	default PDU Session;	1101-10	0232	E.1/281	140 30 Only		
1		immediate link			2.1/201			
		establishment						
į.			1	1		1		

10.4.27.9	OPEN	N CHANNEL (related to Satel	lite NG-RAN	J)					
10.7.21.3		OPEN CHANNEL,	Rel-17	•/	C236	E.1/89	SAT-NG-SS		
		immediate link					only		
		establishment, Satellite					,		
		NG-RAN, bearer type '03'							
		- Default PDU Session	D-147		0000	F 4/00	0.4 T NO 00		
	9.2	OPEN CHANNEL, immediate link	Rel-17		C236	E.1/89	SAT-NG-SS		
		establishment, Satellite					only		
		NG-RAN, bearer type '0C'							
	9.3	OPEN CHANNEL, Satellite	Rel-17		C236	E.1/89	SAT-NG-SS		
		NG-RAN, bearer type '0C',					only		
		after receiving policy							
		update for URSP from							
	9.4	network OPEN CHANNEL, Satellite	Rel-17		C236	E.1/89	SAT-NG-SS		
	9.4	NG-RAN, bearer type '0C',	Kel-17		C230	E. 1/09	only		
		PDU Session is already					O. II.y		
		available for the same							
		DNN							
	9.5	OPEN CHANNEL,	Rel-17		C236	E.1/89	SAT-NG-SS		
		immediate link					only		
		establishment, Satellite NG-RAN, bearer type '02'							
		OPEN CHANNEL,	Rel-17		C236	E.1/89	SAT-NG-SS		
	0.0	immediate link			2_00		only		
	9.6	establishment, Satellite					Í		
		NG-RAN, bearer type '0B'							
10.4.28		SE CHANNEL							
10.4.28 .3		SE CHANNEL (E-UTRAN/EP			C224	T 1/00 AND	T LICE OR	ı	I
	3.1	Default EPS bearer	Rel-13		C224	E.1/89 AND E.1/90	E-USS OR NB-SS		
	3.2	EPS bearer with APN	Rel-13		C224	E.1/89 AND	E-USS OR	TCEP001,	
	0.2	different from default APN	1101 10		OZZ	E.1/90	NB-SS	TCEP002	
	3.3	Command qualifier set to 1	Rel-13		C230	E.1/89 AND	E-USS OR		
		•				E.1/90	NB-SS		
10.4.28.4		SE CHANNEL (NG-RAN)				T		1	ı
	4.1	NG-RAN; bearer type '03'	Rel-15		C232	E.1/89 AND	NG-SS only		
	4.2	default PDU SessionNG-RAN; bearer type '0C'	Rel-15		C232	E.1/281 E.1/89 AND	NG-SS only		
	4.2	NO-ITAIN, bearer type 00	1161-13		0232	E.1/281	NO-33 Only		
10.4.29	RECE	IVE DATA						L	
	1.2	Already opened channel -	Rel-13		C182	E.1/89 AND	E-USS OR		
		E-UTRAN; APN different				E.1/91 AND	NB-SS		
	4.0	from default	D 145		0000	E.1/92	NO 00 1		
	1.3	Length of received data exceeds the buffer size.	Rel-15		C232	E.1/89 AND	NG-SS only		
	1.4	Receive 65535 Bytes of	Rel-16		C232	E.1/281 E.1/89 AND	NG-SS only		
	'	data	TCI-10		0232	E.1/281	140 00 only		
	1.5	Send refresh after	Rel-16		C232	E.1/89 AND	NG-SS only		
		receiving data.				E.1/281			
	1.7	2 consecutive RECEIVE	Rel-16		C232	E.1/89 AND	NG-SS only		
10.4.20	CENT	DATA				E.1/281		<u> </u>	L
10.4.30 10.4.30.3		DATA (F. LITRANI)							
10.4.30.3	3.1	DATA(E-UTRAN) Immediate mode – E-	Rel-13		C223	E.1/89 AND	E-USS OR		
	3.1	UTRAN; Default EPS	1/01,19		0223	E.1/92	NB-SS		
		bearer					55		
	3.2	Store mode – E-UTRAN;	Rel-13		C224	E.1/89 AND	E-USS OR		
		APN different from default				E.1/92	NB-SS		
10 100	C=::-	APN				<u> </u>			L
10.4.30.4	SEND	DATA(NG-RAN)	Del 40		0000	E 4/00 AND	NO CO	1	1
	4.1	NG-RAN; bearer type '03' – Default PDU Session;	Rel-16		C232	E.1/89 AND E.1/281	NG-SS only		
		immediate mode				L. 1/20 I			
	4.2	NG-RAN; bearer type '0C';	Rel-16		C232	E.1/89 AND	NG-SS only		
		Store mode			J_0_	E.1/281	55 51119		
	4.3	SEND DATA, NG-RAN,	Rel-16		C232	E.1/89 AND	NG-SS only		
		RECEIVE DATA				E.1/281			
		suspended during the							
10.4.24	CET	process of SEND DATA						<u> </u>	L
10.4.31		CHANNEL STATUS EPS bearer with APN	Rel-13		C224	E.1/89 AND	E-USS OR		
Ī		LI'S DEAIEL WILLI APN	1761-13		UZZ4			Ĩ	I
	1.4	different from default APN				F.1/93	NB-SS		
	1.5	different from default APN EPS bearer with APN	Rel-13		C224	E.1/93 E.1/89 AND	NB-SS E-USS OR		

		different from default APN;				E.1/93	NB-SS		
		after a link dropped							
	1.6	After a link dropped during	Rel-15		C232	E.1/89 AND	NG-SS only		
		receiving data				E.1/281	_		
10.5	Data	Download to UICC							
10.5.1	SMS-	PP Data Download							
10.5.2	Cell E	Broadcast Data Download							
10.5.3	SMS-	PP Data Download over IM	S						
	3.1	SMS-PP Data Download	Rel-13		C198	E.1/2	E-USS only	TCEP001	
		over IMS; E-UTRAN							
10.5.4	SMS-	PP Data Download over SC	s in E-UT	RAN		•		•	
		SMS-PP Data Download	Rel-8		C205	E.1/2	E-USS OR	TCEP001	
		over SGs; E-UTRAN					NB-SS		
10.6	CALL	CONTROL BY USIM				•		•	
10.6.1	Proce	edure for Mobile Originated	l calls						
10.6.2		edure for Supplementary (S		25					
10.6.3		action with Fixed Dialling N							
10.6.4	Supp	ort of Barred Dialling Num	ber (BDN)	service					
10.6.5		d Dialling Number (BDN) s			erminals not si	upporting BDN	1		
10.7		IT DOWNLOAD	0111001101	idiiiig i di to	, , , , , , , , , , , , , , , , , , ,	apporting 2210			
10.7.1		all Event							
10.7.1		Connected Event							
10.7.2		Disconnected Event							
10.7.4		tion Status Event							
10.7.4.1		ion Status Event (Normal)							
10.7.7.1		E-UTRAN	Rel-13		C222	E.1/37 AND	E-USS OR		
	1.2	L-OTRAIN	Nel-13		GZZZ	E.1/33 AND E.1/135	NB-SS		
	1.3	NG-RAN	Rel-15		C231	E.1/37 AND	NG-SS only		
			-: .0			E.1/33	= = = = = = = = = = = = = = = = = = =	1	
10.7.5	User	Activity Event							
10.7.5.1		Activity Event (Normal)							
		user activity event	Rel-13		C178	E.1/38 AND			
		, , , , , , , , , , , , , , , , , , , ,				E.1/33 AND E.1/111			
10.7.6	Idle S	creen Available Event							
10.7.7	Card	Reader Status Event							
10.7.7.1	Card	Reader Status (Normal)							
	1.1	Card reader status normal	Rel-13		C109	E.1/40 AND			
						E.1/33			
10.7.7.2	Card	Reader Status (Detachable of	ard reader)					
	2.1	Detachable card reader	Rel-13		C116	E.1/40 AND			
						E.1/33			
10.7.8	Lang	uage Selection Event							
10.7.8 .1	Langu	uage Selection Event (Norma	al)						
	1.1	Language selection event	Rel-13		C177 AND	E.1/41 AND			
					C178 AND	E.1/33 AND			
					C181 AND	E.1/110 AND		1	
<u></u>			<u>L</u>	<u>L</u>	C216	E.1/111		<u> </u>	<u></u>
10.7.9	Brow	ser Termination Event							
10.7.10		Available Event							
10.7.10.1	Data	Available Event (Normal)							
	1.2	Data available event	Rel-13		C223	E.1/43 AND	E-USS OR		
						E.1/89 AND	NB-SS	1	
						E.1/92 AND		1	
						E.1/33			
	1.3	Data available; PSM by	Rel-13	Rel-13		E.1/43 AND	E-USS OR	TCEP003	
		SUSPEND UICC	D-1.11		0005	E.1/89 AND	NB-SS	1	
			Rel-14		C225	E.1/92 AND		1	
						E.1/33			
	1.4	Data available event	Rel-13	Rel-13		E.1/43 AND	E-USS OR	TCEP003	
			Rel-14		C226	E.1/89 AND	NB-SS	1	
						E.1/92 AND		1	
				<u> </u>		E.1/33		L	
	1.5	Data available event	Rel-13	Rel-13		E.1/43 AND	E-USS OR	TCEP004	
			Rel-14		C227	E.1/89 AND	NB-SS	1	
			1.01 17		5221	E.1/92 AND		1	
		1			L	E.1/33		<u> </u>	
10.7.11		nel Status event			T = -	1 =	l = . : = =	1	
	1.2	Channel status event	Rel-13		C223	E.1/44 AND	E-USS OR	1	
						E.1/89 AND	NB-SS	1	
10 = 10		<u> </u>			L	E.1/33	L	L	
10.7.12		ss Technology Change eve				l = . =		1	
	1.4	Single access technology;	Rel-15		C231	E.1/45 AND	NG-SS only	1	
	1	NG-RAN		Ì	ĺ	E.1/33	I	1	

10.7.15 Network since	nection event earch mode change event status event ejection event ACH REJECT CKING AREA ATE REJECT iSTRATION REJECT- il Registration	Rel-13 Rel-13 Rel-13		М	E.1/48 AND E.1/33			
1.1 Network R 10.7.16 Browsing: 10.7.17 Network R 1.1 ATT 1.2 TRA UPD 1.3 REG Initia	ork search mode age event status event ejection event ACH REJECT CKING AREA ATE REJECT ISTRATION REJECT-	Rel-13		М				
	nge event status event ejection event ACH REJECT CKING AREA NATE REJECT ISTRATION REJECT-	Rel-13		IVI				
10.7.16 Browsing 10.7.17 Network R 1.1 ATT.	status event ejection event ACH REJECT CKING AREA ATE REJECT ISTRATION REJECT-				2.1,00			
1.1 ATT.	ejection event ACH REJECT CKING AREA ATE REJECT ISTRATION REJECT-						•	
1.2 TRA UPD 1.3 REG Initia	CKING AREA ATE REJECT ISTRATION REJECT-							
UPD 1.3 REG Initia	ATE REJECT SISTRATION REJECT-	Rel-13		C190	E.1/33 AND E.1/197	E-USS OR NB-SS		
Initia				C190	E.1/33 AND E.1/197	E-USS OR NB-SS		
		Rel-15		C231	E.1/33 AND E.1/197	NG-SS only		
Mobi upda	SISTRATION REJECT- ility Registration ating	Rel-15		C231	E.1/33 AND E.1/197	NG-SS only		
	Selection event				_			
	cell Selection	Rel-13		C200	E.1/201	E-USS only		
IMS (Refe	ration event registration event er to 10.4.27.7 AND 2.7.20)	Rel-13						
10.7.20 Incoming I	MS data event							
1.1 IMS avail	Registration and Data able event; IARI list ed on the ISIM	Rel-10		C208	E.1/33 AND E.1/43 AND E.1/89 AND E.1/91 AND E.1/246 AND E.1.247 AND E.1/249	E-USS		
10.7.21 Data Conn	ection Status Change	event			•			
	TRAN; Activate PDN Deactivate PDN	Rel-14		C229	E.1/275	E-USS OR NB-SS		
	RAN; Activate PDU Deactivate PDU	Rel-17		C232	E.1/275	NG-SS		
10.7.22 CAG Cell S	Selection event							
	NT DOWNLOAD –	Rel-17		C235	E.1/287	NG-SS only		
	Cell Selection TMESSAGE CONTRO	I BY HEIM	1					
1.10 Over Proa	r SG in E-UTRAN; with ctive command; yed; no modification	Rel-13		C220	E.1/12 AND E.1/26 AND E.1/110	E-USS OR NB-SS	TCEP001	
1.11 Over user mod	SG in E-UTRAN; with SMS; allowed; no ification			C220	E.1/12	E-USS OR NB-SS		
Proa allow				C220	E.1/12 AND E.1/26 AND E.1/110	E-USS OR NB-SS	TCEP001	
user	SG in E-UTRAN; with SMS; Not allowed			C220	E.1/12	E-USS OR NB-SS		
Proa	SG in E-UTRAN; with active command; wed with modifications'	Rel-13		C220	E.1/12 AND E.1/26 AND E.1/110	E-USS OR NB-SS	TCEP001	
user mod	SG in E-UTRAN; with SMS; Allowed with ifications	Rel-13		C220	E.1/12	E-USS OR NB-SS		
Proa resp	SG in E-UTRAN; with active command; USIM onds with '90 00'; ved; no modification	Rel-13		C220	E.1/12 AND E.1/26 AND E.1/110	E-USS OR NB-SS	TCEP001	
Send atter resp	SG in E-UTRAN; d Short Message npt by user; USIM onds with '90 00'; ved; no modification	Rel-13		C220	E.1/12	E-USS OR NB-SS		
	of command number							
	PLAY TEXT normal	Rel-13		C177	E.1/17 AND			
prior					E.1/110			
1.1 E-U7	TROL on EPS PDN C TRAN – default PDN section activation;	onnection Rel-13	Rel-13		E.1/7 AND E.1/8 AND	E-USS OR NB-SS		
	ved without ification	Rel-14		C222	E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 AND			

		T		1		T 4/4.40		ı	1
						E.1/142			
	1.2	E-UTRAN – default PDN	Rel-13	Rel-13		E.1/7 AND	E-USS OR		
		connection activation; not				E.1/8 AND	NB-SS		
		allowed				E.1/10 AND			
			Rel-14		C222	E.1/11 AND			
			1101 11		OLLL	E.1/13 AND			
						E.1/64 AND			
						E.1/142			
	1.3	E-UTRAN – default PDN	Rel-13	Rel-13		E.1/7 AND	E-USS OR		
		connection activation;				E.1/8 AND	NB-SS		
		allowed with modification				E.1/10 AND			
			Rel-14		C222	E.1/11 AND			
			_		_	E.1/13 AND			
						E.1/64			
	4.4	E LITEAN DENI	D-140	D-140			E 1100		
	1.4	E-UTRAN – PDN	Rel-13	Rel-13		E.1/7 AND	E-USS only		
		connection triggered by				E.1/8 AND			
		user; UICC sends 90 00				E.1/10 AND			
			Rel-14		C190	E.1/11 AND			
						E.1/13 AND			
						E.1/64 AND			
						E.1/142			
	1 5	ELITRAN DON	Dol 12	Dol 12			E LICC only		
	1.5	E-UTRAN – PDN	Rel-13	Rel-13		E.1/7 AND	E-USS only		
		connection triggered by				E.1/8 AND			
		user; UICC sends 93 00	D	1	0455	E.1/10 AND			
			Rel-14		C190	E.1/11 AND			
						E.1/13 AND			
						E.1/64 AND			
						E.1/142			
	1.6	E-UTRAN – PDN	Rel-13	Rel-13		E.1/7 AND	E-USS only		+
	1.0	=	IVEI-13	1761-13			L-USS UTILY		
		connection triggered by				E.1/8 AND			
		user; allowed with	Dal 44		0400	E.1/10 AND			
		modification	Rel-14		C190	E.1/11 AND			
						E.1/13 AND			
						E.1/64			
	1.7	PDN connection activation	Rel-13	Rel-13		E.1/7 AND	E-USS only		
	1.7	from OPEN CHANNEL	1161-13	110-13		E.1/8 AND	L-000 only		
		command	D 144		0.100	E.1/10 AND			
			Rel-14		C182	E.1/11 AND			
			Rel-14		C182	E.1/11 AND E.1/13 AND			
			Rel-14		C182				
			Rel-14		C182	E.1/13 AND E.1/64 AND			
10.11	Call (Control on PDP Context Ac	·		C182	E.1/13 AND			
10.11		Control on PDP Context Ac	·		C182	E.1/13 AND E.1/64 AND			
10.11 10.12	Chan	ge eCall mode	tivation	Rol-13	C182	E.1/13 AND E.1/64 AND E.1/142	F-IISS only		
	Chan	ge eCall mode REFRESH after change	Rel-13	Rel-13		E.1/13 AND E.1/64 AND E.1/142	E-USS only		
	Chan	ge eCall mode REFRESH after change eCall mode; disable FDN	Rel-13	Rel-13	C182	E.1/13 AND E.1/64 AND E.1/142	E-USS only		
	1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN	Rel-13			E.1/13 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2	ŕ		
	1.1	ge eCall mode REFRESH after change eCall mode; disable FDN	Rel-13	Rel-13		E.1/13 AND E.1/64 AND E.1/142	E-USS only		
	1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change	Rel-13 Rel-14 Rel-13		C190	E.1/13 AND E.1/64 AND E.1/142 E.1/142 E.1/24 AND E.1/2 E.1/24 AND	ŕ		
	1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in	Rel-13 Rel-14 Rel-13			E.1/13 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2	ŕ		
	1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN	Rel-13 Rel-14 Rel-13 Rel-14		C190 C190	E.1/13 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2	E-USS only		
	1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing	Rel-13 Rel-14 Rel-13		C190	E.1/13 AND E.1/64 AND E.1/142 E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND	ŕ		
	1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN	Rel-13 Rel-14 Rel-13 Rel-14		C190 C190	E.1/13 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2	E-USS only		
	1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency	Rel-13 Rel-14 Rel-13 Rel-14		C190 C190	E.1/13 AND E.1/64 AND E.1/142 E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND	E-USS only		
10.12	1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} , E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} , E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} , IMS Emergency Services in E-UTRAN	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14	Rel-13	C190 C190 C202	E.1/13 AND E.1/64 AND E.1/142 E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND	E-USS only		
	1.1 1.2 1.3	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} , E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} , E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} , IMS Emergency Services in E-UTRAN	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14	Rel-13	C190 C190 C202	E.1/13 AND E.1/64 AND E.1/142 E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND	E-USS only		
10.12	1.1 1.2 1.3	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} , E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} , E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} , IMS Emergency Services in E-UTRAN	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14	Rel-13	C190 C190 C202	E.1/13 AND E.1/64 AND E.1/142 E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND	E-USS only		
10.12	1.1 1.2 1.3	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in: EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14	Rel-13	C190 C190 C202	E.1/13 AND E.1/64 AND E.1/142 E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2	E-USS only		
10.12	1.1 1.2 1.3	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in: EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14	Rel-13	C190 C190 C202	E.1/13 AND E.1/64 AND E.1/142 E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2	E-USS only		
10.12	1.1 1.2 1.3	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in: EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session establishment triggered by	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14	Rel-13	C190 C190 C202	E.1/13 AND E.1/64 AND E.1/142 E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2	E-USS only		
10.12	1.1 1.2 1.3	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in: EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14	Rel-13	C190 C190 C202	E.1/13 AND E.1/64 AND E.1/142 E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2	E-USS only		
10.12	1.1 1.2 1.3	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in: EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session establishment triggered by	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14	Rel-13	C190 C190 C202	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2	E-USS only		
10.12	1.1 1.2 1.3 CALL 1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14 Rel-14 Rel-14	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in: EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session establishment triggered by	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14	Rel-13	C190 C190 C202	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/2 AND E.1/2 E.1/3 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 E.1/7 AND	E-USS only		
10.12	1.1 1.2 1.3 CALL 1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14 Rel-14 Rel-14	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/64 E.1/7 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14 Rel-14 Rel-14	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/2 AND E.1/2 E.1/3 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/64 E.1/7 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14 Rel-14 Rel-14	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/64 E.1/7 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14 Rel-14 Rel-14	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/14 AND E.1/164 E.1/17 AND E.1/18 AND E.1/10 AND E.1/10 AND E.1/10 AND E.1/10 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14 Rel-14 Rel-14	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/2 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/17 AND E.1/17 AND E.1/17 AND E.1/18 AND E.1/17 AND E.1/17 AND E.1/17 AND E.1/17 AND E.1/17 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User	Rel-13 Rel-14 Rel-14 Rel-14 Rel-14 Rel-15 Rel-15	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/10 AND E.1/13 AND E.1/3 AND E.1/8 AND E.1/8 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session establishment triggered by User Not allowed Triggered by user; UICC	Rel-13 Rel-14 Rel-13 Rel-14 Rel-14 Rel-14 Rel-14	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/10 AND E.1/13 AND E.1/64 E.1/7 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User	Rel-13 Rel-14 Rel-14 Rel-14 Rel-14 Rel-15 Rel-15	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/11 AND E.1/11 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session establishment triggered by User Not allowed Triggered by user; UICC	Rel-13 Rel-14 Rel-14 Rel-14 Rel-14 Rel-15 Rel-15	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/2 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/164 E.1/7 AND E.1/8 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session establishment triggered by User Not allowed Triggered by user; UICC	Rel-13 Rel-14 Rel-14 Rel-14 Rel-14 Rel-15 Rel-15	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/10 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/14 AND E.1/15 AND E.1/164	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session establishment triggered by User Not allowed Triggered by user; UICC	Rel-13 Rel-14 Rel-14 Rel-14 Rel-14 Rel-15 Rel-15	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/2 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/164 E.1/7 AND E.1/8 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session establishment triggered by User Not allowed Triggered by user; UICC	Rel-13 Rel-14 Rel-14 Rel-14 Rel-14 Rel-15 Rel-15	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/10 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/14 AND E.1/15 AND E.1/164	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 1.1 1.2 1.3 1.3	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User Not allowed Triggered by user; UICC sends 90 00	Rel-13 Rel-14 Rel-14 Rel-14 Rel-15 Rel-15	Rel-13	C190 C190 C202 NG-RAN C231 C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/14 AND E.1/15 AND E.1/164 E.1/7 AND E.1/164 E.1/7 AND E.1/164 E.1/10 AND E.1/10 AND E.1/13 AND E.1/10 AND E.1/13 AND E.1/10 AND E.1/13 AND E.1/14 AND E.1/15 AND E.1/164	E-USS only E-USS only NG-SS only NG-SS only		
10.12	1.1 1.2 1.3 CALL 1.1 1.2	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} , E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} , E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} , IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User Not allowed Triggered by user; UICC sends 90 00	Rel-13 Rel-14 Rel-14 Rel-14 Rel-14 Rel-15 Rel-15	Rel-13	C190 C190 C202 NG-RAN C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/14 AND E.1/15 AND E.1/164 E.1/7 AND E.1/164 AND E.1/13 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/14 AND E.1/15 AND E.1/164 E.1/17 AND E.1/164 E.1/17 AND	E-USS only E-USS only NG-SS only		
10.12	1.1 1.2 1.3 1.1 1.2 1.3 1.3 1.3	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} ; E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} ; E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} ; IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User Not allowed Triggered by user; UICC sends 90 00	Rel-13 Rel-14 Rel-14 Rel-14 Rel-15 Rel-15	Rel-13	C190 C190 C202 NG-RAN C231 C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/10 AND E.1/11 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/14 AND E.1/15 AND E.1/164 E.1/7 AND E.1/164 E.1/17 AND E.1/18 AND E.1/18 AND E.1/18 AND E.1/18 AND E.1/18 AND E.1/18 AND E.1/18 AND E.1/18 AND E.1/18 AND E.1/18 AND	E-USS only E-USS only NG-SS only NG-SS only		
10.12	1.1 1.2 1.3 1.1 1.2 1.3 1.3 1.3	ge eCall mode REFRESH after change eCall mode; disable FDN in EF _{EST} , E-UTRAN REFRESH after change eCall mode; enable FDN in EF _{EST} , E-UTRAN REFRESH after changing eCall mode; disable FDN in EF _{EST} , IMS Emergency Services in E-UTRAN CONTROL on PDU Session Allowed without modification; PDU Session establishment triggered by User Not allowed Triggered by user; UICC sends 90 00	Rel-13 Rel-14 Rel-14 Rel-14 Rel-15 Rel-15	Rel-13	C190 C190 C202 NG-RAN C231 C231	E.1/13 AND E.1/64 AND E.1/64 AND E.1/142 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/24 AND E.1/2 E.1/3 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/13 AND E.1/14 AND E.1/15 AND E.1/164 E.1/7 AND E.1/164 AND E.1/13 AND E.1/10 AND E.1/13 AND E.1/13 AND E.1/14 AND E.1/15 AND E.1/164 E.1/17 AND E.1/164 E.1/17 AND	E-USS only E-USS only NG-SS only NG-SS only		

NOTE: BI	ank entri	with altitude, NG-RAN es indicate the latest valid re	lease at the	time of put	olication of thi	s specification			
		shapes is Ellipsoid point				E. 1/238)			
	1.1	Geographical location discovery, Preferred GAD	Rel-15		C237	E.1/181 AND E.1/238)	NG-SS only		
10.15		raphical location discovery			0007	[4/404 AND	NC CC and		
10.1E	Coss	[Steering of Roaming]							
		REFRESH command				E.1/2			
	3.3	Long message with	Rel-15		C231	E.1/24 AND	NG-SS only		
		[Steering of Roaming]	5			E.1/2			
	3.1	REFRESH command	Rel-15		C231	E.1/24 AND	NG-SS only		
10.14.3		ng of Roaming via REGISTR		CEPT mess		1 =		ı	
		with REFRESH command [Steering of Roaming]	A.T. (0): : -						
	2.4	Long message in several ENVELOPE commands	Rel-16		C231	E.1/24 AND E.1/2	NG-SS only		
	2.0	requested" and REFRESH command [Steering of Roaming]	1.01 10		0201	E.1/2	Go only		
	2.3	"Acknowledgement	Rel-15		C231	E.1/24 AND	NG-SS only		
	2.1	REFRESH command [Steering of Roaming]	Rel-15		C231	E.1/24 AND E.1/2	NG-SS only		
10.14.2		ing of Roaming via DL NAS 1		k i message			NC CC and		1
10 14 2	Ctaari	registration not requested")T masss					
	1.4	"acknowledgement requested" and "re-	Rel-15		C231	E.1/24 AND E.1/2	NG-SS only		
	1.3	"acknowledgement requested" and "re- registration requested"	Rel-15		C231	E.1/24 AND E.1/2	NG-SS only		
	1.2	"acknowledgement not requested" and "re-registration requested"	Rel-15		C231	E.1/24 AND E.1/2	NG-SS only		
	4.0	requested" and "re- registration not requested"	Dalde		0004	E.1/2	NO COI		
	1.1	"acknowledgement not	Rel-15		C231	E.1/24 AND	NG-SS only		
10.14.1		ng Indicator Data update via		RANSPORT					
10.14		LOPE SMS-PP Data Down							
						E.1/10 AND E.1/11 AND E.1/13 AND E.1/64			
	1.7	Triggered by OPEN CHANNEL	Rel-15		C232	E.1/64 E.1/7 AND E.1/8 AND	NG-SS only		
		with modification of ePCO				E.1/8 AND E.1/10 AND E.1/11 AND E.1/13 AND			
	1.6	Triggered by user; allowed	Rel-15		C231	E.1/64 E.1/7 AND	NG-SS only		
		PDU DN request container				E.1/10 AND E.1/11 AND E.1/13 AND			
	1.5	Triggered by user; allowed with modification of SM	Rel-15		C234	E.1/13 AND E.1/64 E.1/7 AND E.1/8 AND	NG-SS only		

C101	IF A.1/1 THEN M ELSE N/A	O_Cap_Conf
C102	void	
C103	void	
C104	IF A.1/2 THEN M ELSE N/A	O_Sust_text
C105	IF A.1/3 AND A.1/41 THEN M ELSE N/A	O_UCS2_Entry AND O_UCS2_Cyrillic
C106	IF A.1/4 THEN M ELSE N/A	O_Ext_Str
C107	IF A.1/5 THEN M ELSE N/A	O_Help
C108	IF A.1/6 THEN O.1 ELSE N/A	O_lcons
C109	IF A.1/7 THEN M ELSE N/A	O_Dual_Slot
C110	IF A.1/9 AND A.1/46 THEN M ELSE N/A	O_Run_At AND O_+CIMI
C111	IF (A.1/10 OR E.1/71) THEN M ELSE N/A	O_LB
C112	IF A.1/11 THEN M ELSE N/A	O_Soft_key
C113	void	
C114	IF C110 AND C108 THEN O.1 ELSE N/A	O_Run_At AND O_+CIMI AND O_Icons
C115	IF C111 AND C108 THEN M ELSE N/A	O_LB AND O_lcons

C116	IF A.1/7 AND A.1/8 THEN M ELSE N/A	O_Dual_Slot AND O_Detach_Rdr
C117	void	
C118	IF A.1/15 AND A.1/41 THEN M ELSE N/A	O_UCS2_Disp AND O_UCS2_Cyrillic
C119	IF A.1/19 THEN M ELSE N/A	O_Redial
C120	IF A.1/20 THEN M ELSE N/A	O_D_NoResp
C121	IF A.1/21 AND A.1/17 THEN M ELSE N/A	O_BIP_GPRS AND O_UDP
C122	IF C111 AND A.1/16 THEN M ELSE N/A	O_LB AND O_GPRS
C123	void	
C124	IF A.1/22; test x.A M ELSE x.B M (where x is the	O OD Culticated
C124		O_CP_Subaddr
	expected sequence number value)	
C125	IF A.1/23 THEN M ELSE N/A	O_lmm_Resp
		O Duration
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	
C134	IF A.1/38 THEN M ELSE N/A	O MMS
		O_WING
C135	void	
C136	void	
C137	void	
C138	void	<u> </u>
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
		O_Run_At AND O_+CGMI
C148	IF A.1/9 AND A.1/47 THEN M ELSE N/A	O_RUII_ALAND O_+CGIVII
C149	IF C148 AND C118 THEN M ELSE N/A	O_Run_At AND O_+CGMI AND O_UCS2_Disp AND
		O_UCS2_Cyrillic
C150	IF C148 AND C143 THEN M ELSE N/A	O_Run_At AND O_+CGMI AND O_UCS2_Disp AND
C130	IF C140 AND C143 THEN WELSE N/A	
		O_UCS2_Chinese
C151	IF C148 AND C145 THEN M ELSE N/A	O_Run_At AND O_+CGMI AND O_UCS2_Disp AND
0.0.	0	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 STFB
C166	IF A.1/63 THEN test step option n.A M ELSE test step	O_longFTN
1	option 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
C160		
1 6 109		(O BIP GPRS AND O UDP AND
C169	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121	
CIOS		O_User_Confirm_Before_PDP_Context_Request) OR
0109	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121	O_User_Confirm_Before_PDP_Context_Request) OR (O_BIP_GPRS AND O_UDP AND NOT
0109	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121	O_User_Confirm_Before_PDP_Context_Request) OR
	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A	O_User_Confirm_Before_PDP_Context_Request) OR (O_BIP_GPRS AND O_UDP AND NOT O_User_Confirm_Before_PDP_Context_Request)
C170	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN 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) O_Serv_SS_HOLD
C170 C171	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 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) O_Serv_SS_HOLD O_Icons
C170	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 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) O_Serv_SS_HOLD
C170 C171 C172	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 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) O_Serv_SS_HOLD O_Icons O_Icons
C170 C171 C172 C173	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 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) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons
C170 C171 C172 C173 C174	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 ELSE N/A IF A.1/78 AND A.1/79 THEN 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) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons O_AddInfo_SS AND O_Serv_SS_CFU
C170 C171 C172 C173 C174	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 ELSE N/A IF A.1/78 AND A.1/79 THEN 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) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons O_AddInfo_SS AND O_Serv_SS_CFU
C170 C171 C172 C173 C174 C175	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 ELSE N/A IF A.1/78 AND A.1/79 THEN M ELSE N/A IF A.1/78 AND A.1/80 THEN 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) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons O_AddInfo_SS AND O_Serv_SS_CFU O_AddInfo_SS AND O_Serv_SS_CLIR
C170 C171 C172 C173 C174 C175 C176	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 ELSE N/A IF A.1/78 AND A.1/79 THEN M ELSE N/A IF A.1/78 AND A.1/80 THEN M ELSE N/A IF A.1/44 THEN N/A ELSE M	O_User_Confirm_Before_PDP_Context_Request) OR (O_BIP_GPRS AND O_UDP AND NOT O_User_Confirm_Before_PDP_Context_Request) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons O_AddInfo_SS AND O_Serv_SS_CFU O_AddInfo_SS AND O_Serv_SS_CLIR O_BDN
C170 C171 C172 C173 C174 C175	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 ELSE N/A IF A.1/78 AND A.1/79 THEN M ELSE N/A IF A.1/78 AND A.1/80 THEN 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) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons O_AddInfo_SS AND O_Serv_SS_CFU O_AddInfo_SS AND O_Serv_SS_CLIR
C170 C171 C172 C173 C174 C175 C176 C177	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 ELSE N/A IF A.1/78 AND A.1/79 THEN M ELSE N/A IF A.1/78 AND A.1/80 THEN M ELSE N/A IF A.1/44 THEN N/A ELSE M IF A.1/84 THEN 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) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons O_AddInfo_SS AND O_Serv_SS_CFU O_AddInfo_SS AND O_Serv_SS_CLIR O_BDN O_No_Type_ND
C170 C171 C172 C173 C174 C175 C176 C177 C178	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 ELSE N/A IF A.1/78 AND A.1/79 THEN M ELSE N/A IF A.1/78 AND A.1/80 THEN M ELSE N/A IF A.1/44 THEN N/A ELSE M IF A.1/84 THEN M ELSE N/A IF A.1/85 THEN 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) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons O_AddInfo_SS AND O_Serv_SS_CFU O_AddInfo_SS AND O_Serv_SS_CLIR O_BDN O_No_Type_ND O_No_Type_NK
C170 C171 C172 C173 C174 C175 C176 C177 C178 C179	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 ELSE N/A IF A.1/78 AND A.1/79 THEN M ELSE N/A IF A.1/78 AND A.1/80 THEN M ELSE N/A IF A.1/44 THEN N/A ELSE M IF A.1/84 THEN M ELSE N/A IF A.1/85 THEN M ELSE N/A IF A.1/86 THEN 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) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons O_AddInfo_SS AND O_Serv_SS_CFU O_AddInfo_SS AND O_Serv_SS_CLIR O_BDN O_No_Type_ND O_No_Type_NK O_No_Type_NA
C170 C171 C172 C173 C174 C175 C176 C177 C178 C179	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 ELSE N/A IF A.1/78 AND A.1/79 THEN M ELSE N/A IF A.1/78 AND A.1/80 THEN M ELSE N/A IF A.1/44 THEN N/A ELSE M IF A.1/84 THEN M ELSE N/A IF A.1/85 THEN M ELSE N/A IF A.1/86 THEN 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) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons O_AddInfo_SS AND O_Serv_SS_CFU O_AddInfo_SS AND O_Serv_SS_CLIR O_BDN O_No_Type_ND O_No_Type_NK O_No_Type_NA
C170 C171 C172 C173 C174 C175 C176 C177 C178	IF (C121 AND A.1/68 THEN test x.A M ELSE IF (C121 AND NOT A.1/68) test x.B M ELSE N/A IF A.1/69 THEN M ELSE N/A IF A.1/6 THEN O.2 ELSE N/A IF A.1/6 THEN O.4 ELSE N/A IF C110 AND A.1/6 THEN O.2 ELSE N/A IF A.1/78 AND A.1/79 THEN M ELSE N/A IF A.1/78 AND A.1/80 THEN M ELSE N/A IF A.1/44 THEN N/A ELSE M IF A.1/84 THEN M ELSE N/A IF A.1/85 THEN 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) O_Serv_SS_HOLD O_Icons O_Icons O_Run_At AND O_+CIMI AND O_Icons O_AddInfo_SS AND O_Serv_SS_CFU O_AddInfo_SS AND O_Serv_SS_CLIR O_BDN O_No_Type_ND O_No_Type_NK

C182	IF A.1/18 AND (A.1/132 OR A.1/133) THEN M ELSE N/A	O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD)
C183	IF (NOT A.1/135) AND (A.1/64 OR A.1/134) THEN M	(NOT O_EUTRAN_NO_UTRAN_NO_GERAN) AND
	ELSE N/A	(O GERAN OR O UTRAN)
C404		
C184	IF A.1/134 THEN M ELSE N/A	O_UTRAN
C185	IF A.1/6 AND A.1/111 THEN M ELSE N/A	O_lcons AND O_lcon_Rec1_Send_SS
C186	IF A.1/6 AND A.1/115 THEN M ELSE N/A	O_lcons AND O_lcon_Rec2_Send_USSD
C187	IF A.1/6 AND A.1/114 THEN M ELSE N/A	O_lcons AND O_lcon_Rec1_Send_USSD
C188	IF A.1/6 AND A.1/120 THEN M ELSE N/A	O_Icons AND O_Icon_Rec1_Set_Up_Idle_Mode_Text
C189	IF C110 AND A.1/6 AND A.1/123 THEN M ELSE N/A	O_Run_At AND O_+CIMI AND O_Icons AND
		O_lcon_Rec1_Run_AT_Cmd
C190	IF (A.1/139 OR A.1/140) THEN M ELSE N/A	pc_eTDD OR pc_eFDD
C191	IF A.1/21 AND A.1/18 THEN M ELSE N/A	O_BIP_GPRS AND O_TCP
C192	IF A.1/21 AND A.1/18 AND A.1/72 THEN M ELSE N/A	O_BIP_GPRS AND O_TCP AND
		O_TCP_UICC_ServerMode
C193	IF (A.1/10 OR (E.1/71 AND E.1/42)) AND A.1/193 THEN	O_LB AND O_Browser_Termination
0100	M ELSE N/A	O_ED / IND O_DIOWSCI_TCITIIII duloi
0101		0.01 . 1: 0.01
C194	IF A.1/138 THEN M ELSE N/A	O_Select_Item_Default_Item
C195	IF A.1/137 THEN M ELSE N/A	O_CSG_Cell_Discovery
C196	IF A.1/142 AND (A.1/139 OR A.1/140) THEN M ELSE	pc_MO_SM-over-IMS AND (pc_eFDD OR pc_eTDD)
0130	,	pc_ivio_divi over-ivio Aivib (pc_ci bb div pc_ci bb)
	N/A	
C197	IF A.1/142 AND A.1/134 AND A.1/194 THEN M ELSE	pc_MO_SM-over-IMS AND O_UTRAN AND
	N/A	O_IMS_UTRAN
C198	IF A.1/141 AND (A.1/139 OR A.1/140) THEN M ELSE	pc_SM-over-IP-receiver AND (pc_eFDD OR pc_eTDD)
0.00	N/A	FO_OW OVER 11 10001401 / 1145 (PO_OF DD OT PO_ETDD)
0400		TO OM STORE IN THE STORE
C199	IF A.1/141 AND A.1/134 AND A.1/194 THEN M ELSE	pc_SM-over-IP-receiver AND O_UTRAN AND
I	N/A	O_IMS_UTRAN
C200	IF A.1/136 THEN M ELSE N/A	O_Event_CSG_Cell_Selection
	IF A.1/64 AND A.1/149 THEN M ELSE N/A	O_GERAN AND O_SMS-CB_Data_Download
C201		
C202	IF (A.1/139 OR A.1/140) AND A.1/150 THEN M ELSE	(pc_eFDD OR pc_eTDD) AND O_IMS
	N/A	
C203	IF A.1/134 AND A.1/150 THEN M ELSE N/A	O_UTRAN AND O_IMS
C204	IF A.1/151 THEN N/A ELSE M	O PS OPMODE
C205	IF (A.1/139 OR A.1/140) AND A.1/152 THEN M ELSE	(pc_eFDD OR pc_eTDD) AND O_SMS_SGs_MT
	N/A	
C206	IF (A.1/139 OR A.1/140) AND A.1/153 THEN M ELSE	(pc_eFDD OR pc_eTDD) AND O_SMS_SGs_MO
0200	N/A	(po_or bb ort po_orbb) / (rtb o_omo_oco_mo
0007		O. Franci, IMO. Destatosticas AND
C207	IF A.1/147 AND A.1/148 AND A.1/150 THEN M ELSE O	O_Event_IMS_Registration AND
		O_UICC_ACCESS_IMS AND O_IMS
C208	IF A.1/146 AND A.1/147 AND A.1/148 AND A.1/150	O_Event_Incoming_IMS_Data AND
	THEN M ELSE N/A	O_Event_IMS_Registration AND O_UICC_ACCESS_IMS
	THEN WEEDE N/A	
		AND O_IMS
C209	IF (A.1/157 OR A.1/159) THEN M ELSE N/A	(pc_SMS_CS_MO OR pc_SMS_PS_MO)
C210	IF (NOT A.1/135) AND (A.1/64 OR A.1/134) AND	(NOT (O_EUTRAN_NO_UTRAN_NO_GERAN) AND
	(A.1/157 OR A.1/159) THEN M ELSE N/A	(O_GERAN OR O_UTRAN)) AND (pc_SMS_CS_MO OR
	(A.1/13/ OK A.1/133) THEN WELSE N/A	
		pc_SMS_PS_MO)
C211	IF (A.1/156 OR A.1/158) THEN M ELSE N/A	(pc_SMS_CS_MT OR pc_SMS_PS_MT)
C212	IF (NOT A.1/135) AND (A.1/64 OR A.1/134) AND	(NOT (O_EUTRAN_NO_UTRAN_NO_GERAN) AND
	(A.1/156 OR A.1/158) THEN M ELSE N/A	(O_GERAN OR O_UTRAN)) AND (pc_SMS_CS_MT OR
	(A. 1/130 OK A. 1/130) THEN WELDE N/A	
		pc_SMS_PS_MT)
C213	IF (NOT A.1/160) THEN M ELSE N/A	NOT O_Rej_Launch_Browser_withDefURL
C214	IF A.1/160 THEN M ELSE N/A	O_Rej_Launch_Browser_withDefURL
C215	IF A.1/16 THEN M ELSE N/A	O_GPRS
C216		O Lang Select
	IF A.1/161 THEN M ELSE N/A	0=
C217	IF A.1/162 THEN M ELSE N/A	O_Provide_Local_LS
C218	IF A.1/163 THEN M ELSE N/A	O_Lang_Notif
	I IF A. I/ 103 THEN WELSE N/A	
C219	IF A.1/164 THEN M ELSE N/A	O_Refresh_Alphaldentifier
	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND
C219 C220	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO
C219	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND
C219 C220	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND
C219 C220 C221	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT
C219 C220 C221	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB
C219 C220 C221	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR
C219 C220 C221	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB
C219 C220 C221 C222 C223	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB)
C219 C220 C221 C222	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A IF A.1/18 AND A.1/178 AND (A.1/132 OR A.1/133 OR	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD
C219 C220 C221 C222 C223 C224	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB)
C219 C220 C221 C222 C223	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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 IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_eTDD OR pc_BIP_eTDD OR pc_BIP_EDD OR pc_BIP_EDD OR pc_BIP_EDD OR pc_BIP_ETDD OR
C219 C220 C221 C222 C223 C224	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB)
C219 C220 C221 C222 C223 C224 C225	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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 IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/182 THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) AND O_PSM_SUSPEND_UICC
C219 C220 C221 C222 C223 C224	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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 IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/182 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) AND O_PSM_SUSPEND_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR
C219 C220 C221 C222 C223 C224 C225 C226	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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 IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/182 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_eTDD OR pc_BIP_ETDD OR pc_BIP_ETDD OR pc_BIP_ETDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_SUSPEND_UICC O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) AND O_PSM_DEAC_UICC
C219 C220 C221 C222 C223 C224 C225	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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 IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/182 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_SUSPEND_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_DEAC_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR
C219 C220 C221 C222 C223 C224 C225 C226	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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 IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/182 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_eTDD OR pc_BIP_ETDD OR pc_BIP_ETDD OR pc_BIP_ETDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_SUSPEND_UICC O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) AND O_PSM_DEAC_UICC
C219 C220 C221 C222 C223 C224 C225 C226 C227	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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 IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/182 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_ETDD OR pc_BIP_NB) O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_SUSPEND_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_DEAC_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_EDRX_SUSPEND_UICC
C219 C220 C221 C222 C223 C224 C225 C226	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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 IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/182 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/183 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/183 THEN M ELSE N/A IF (A.1/132 OR A.1/133) AND A.1/152 AND A.1/184	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_EDD OR pc_BIP_EDD OR pc_BIP_EDD OR pc_BIP_EDD OR pc_BIP_NB) O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_SUSPEND_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_DEAC_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_EDRX_SUSPEND_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_EDRX_SUSPEND_UICC (pc_BIP_NB) AND O_EDRX_SUSPEND_UICC
C219 C220 C221 C222 C223 C224 C225 C226 C227	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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 IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/182 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/183 THEN M ELSE N/A IF (A.1/132 OR A.1/133) AND A.1/152 AND A.1/184 THEN M ELSE N/A	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_ETDD OR pc_BIP_NB) O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_SUSPEND_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_DEAC_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_DEAC_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_EDRX_SUSPEND_UICC (pc_BIP_NB) AND O_EDRX_SUSPEND_UICC (pc_BIP_EFDD OR pc_BIP_ETDD) AND O_SMS_SGs_MT AND O_PS_Data_Off
C219 C220 C221 C222 C223 C224 C225 C226 C227	IF A.1/164 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/153 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) AND A.1/152 THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF (A.1/139 OR A.1/140 OR A.1/173) THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) THEN M ELSE N/A 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 IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/182 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/181 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/183 THEN M ELSE N/A IF A.1/18 AND (A.1/132 OR A.1/133 OR A.1/177) AND A.1/183 THEN M ELSE N/A IF (A.1/132 OR A.1/133) AND A.1/152 AND A.1/184	O_Refresh_Alphaldentifier (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MO (pc_eFDD OR pc_eTDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB) AND O_SMS_SGs_MT pc_eTDD OR pc_eFDD OR pc_NB O_TCP AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_NB) O_TCP AND pc_Multiple_PDN AND (pc_BIP_eFDD OR pc_BIP_eTDD OR pc_BIP_ETDD OR pc_BIP_ETDD OR pc_BIP_NB) O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_SUSPEND_UICC O_TCP AND (pc_BIP_eFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_PSM_DEAC_UICC O_TCP AND (pc_BIP_EFDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_EDRX_SUSPEND_UICC O_TCP AND (pc_BIP_ETDD OR pc_BIP_ETDD OR pc_BIP_NB) AND O_EDRX_SUSPEND_UICC

C230	A.1/17 AND A.1/178 AND (A.1/132 OR A.1/133 OR	O_UDP AND pc_Multiple_PDN AND (pc_BIP_eFDD
	A.1/177) THEN M ELSE N/A	OR pc_BIP_eTDD OR pc_BIP_NB)
C231	IF A.1/187 THEN M ELSE N/A	pc_NG_RAN
C232	IF (A.1/187 AND A.1/188) THEN M ELSE N/A	pc_NG_RAN AND pc_BIP_NG_RAN
C233	IF (A.1/191) THEN M ELSE N/A	O_SUPI_NAI
C234	IF A.1/187 AND A.1/195 THEN M ELSE N/A	pc_NG_RAN AND O_Set_DN_Specific_ID
C235	IF (A.1/187 AND A.1/196) THEN M ELSE N/A	pc_NG_RAN AND pc_CAG
C236	IF A.1/197 THEN M ELSE N/A	pc_nonTerrestrialNetwork_r17
C237	IF (A.1/81 AND A.1/187) THEN M ELSE N/A	O_Geo_Location_Discovery AND pc_NG_RAN
C238	IF (A.1/83 AND A.1/187) THEN M ELSE N/A	O_Toolkit_GBA AND pc_NG_RAN

O.1	IF A.1/zz tests x.yA M ELSE tests x.yB M (where zz corresponds to the option relating to the command being tested (e.g. A.1/90 if Display Text supports icons as defined in record 1 of EF(IMG)) and x.y is the expected sequence number value)
0.2	IF A.1/zz tests x.yA M ELSE tests x.yB M (where zz corresponds to the option relating to the command being tested (e.g. A.1/91 if Display Text supports icons as defined in record 2 of EF(IMG)) and x.y is the expected sequence number value)
0.3	void
0.4	IF A.1/zz AND A.1/ww tests x.yA M ELSE tests x.yB M (where zz and ww correspond to the option relating to the command being tested (e.g. A.1/90 if Display Text supports icons as defined in record 1 of EF(IMG) and A.1.92 if Display Text supports icons as defined in record 5 of EF(IMG)) and x.y is the expected sequence number value)

TCEP001	IF NOT A.1/84 THEN during the test execution; the display or the non-display of any alpha identifier; text string or
	icon shall be treated as successfully verified.
TCEP002	IF NOT A.1/85 THEN the terminal may open the channel without explicit confirmation by the user.
TCEP003	If A.1/181 and/or A.1/182 is supported; in addition to the test case initial conditions; any specific information or particular UE configurations required to ensure that the UE performs UICC deactivation/suspension in PSM shall be provided by the UE manufacturer
TCEP004	If A.1/183 is supported; in addition to the test case initial conditions; any specific information or particular UE configurations required to ensure that the UE suspends the UICC in eDRX shall be provided by the UE manufacturer

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(10.4.27.6; Seq. 6.1) ELSE A	(O_BIP_GPRS AND O_UDP) AND (pc_BIP_eFDD OR pc_BIP_eTDD) AND (O_UTRAN OR O_GERAN)
AER002	IF ((A.1/132 OR A.1/133 OR A.1/173) AND (A.1/134 OR A.1/64))) THEN R(27.22.7.4 Seq. 1.2) ELSE A	(pc_BIP_eFDD OR pc_BIP_eTDD OR pc_NB) AND (O_GERAN OR O_UTRAN)
AER003	IF ((A.1/132 OR A.1/133) AND (A.1/134 OR A.1/64))) THEN R(10.4.15 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(10.4.15 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(10.4.27.6; Seq. 6.4) ELSE A	(O_BIP_GPRS AND O_UDP) AND (pc_BIP_eFDD OR pc_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(10.4.27.6; Seq. 6.3) ELSE A	(O_BIP_GPRS AND O_UDP) AND (pc_BIP_eFDD OR pc_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(10.4.27.6; Seq. 6.5) ELSE A	(O_BIP_GPRS AND O_UDP) AND (pc_BIP_eFDD OR pc_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(10.4.29; Seq. 1.2) ELSE A	(O_BIP_GPRS AND O_UDP) AND (pc_BIP_eFDD OR pc_BIP_eTDD) AND (O_UTRAN OR O_GERAN)

4 Test environment

4.0 General Test purpose

Testing of functional conformance to USIM Application Toolkit commands, including proactive UICC commands when implemented on a nrUSIM.

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 is specific to the Toolkit Application being executed within the nrUSIM, hence sequential testing of commands is not possible. The testing will therefore have to be performed on a command-by-command basis controlled by the TT.

4.1 Test environment description

4.1.1 General test environment

Without having the UICC-Terminal interface accessible a direct verification of APDU/data timing and contents is not possible. Thus, alternative implementations and methods will be used to provide sufficient confidence in the result obtained. The present document will not specify an authoritative test environment. The following figure shows a test environment that allows the verification of test results for UEs with an integrated and not removable UICC/USIM (nrUSIM).

Without having the UICC-Terminal interface accessible, a direct verification of APDU or data contents is not possible. The present document shall provide a test environment and test methods that allow the verification of test results for UEs with an integrated and not removable UICC/USIM (nrUSIM).

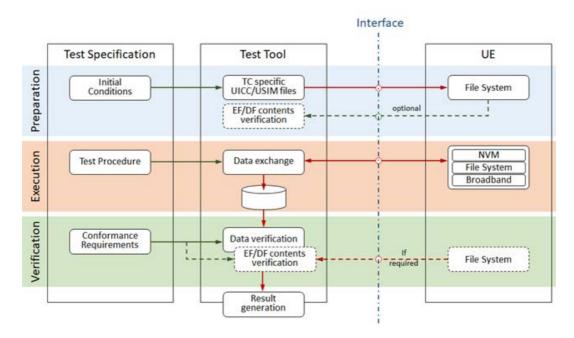


Figure 4.1: General test environment

Figure 4.1 gives an overview on how a test case shall be executed.

Based on the identified test purpose and the related conformance requirements an appropriate test sequence is defined. The test itself can be split into three phases:

- In the preparation phase the initial set-up for the test case is performed. Test specific data is transferred to the nrUSIM. E.g. by provisioning a test specific profile compliant to the TCA eUICC Profile Package: Interoperable Format Technical Specification [18], provisioning test specific proactive command data, etc..
- In the execution phase the test procedure is performed. It has to be ensured that all steps defined in the test procedure are executed and that they are executed in order. The data generated during this execution is stored in the TT and/or test EFs in the file system within the nrUICC.
- In the verification phase the data, procedures and processes identified and stored during execution are checked against given conformance requirements. A final verification of specific EF/DF contents might be required. The exchange of required data has to be ensured, even though the required data transfer is not necessarily listed in the test procedure.

4.1.2 Example - test environment for contents verification

Contents verification within the scope of the present document describes a procedure that allows the TT to compare contents of EFs/DFs available on the EUT with expected values defined in the present document.

Example:

- During preparation phase specific content for the EFFPLMN is updated in the nrUSIM;
- During execution of the test the FPLMN value is modified;
- As the FPLMN value stored in EFFPLMN is not transferred to the TT during test execution;
- The TT performs a read procedure on EFFPLMN at test case end (not necessarily part of the test procedure);
- The TT compares the value read with the expected value stored in the TT.

The contents verification method described here is not applicable when a verification of EF/DF contents needs to be performed at a time other than the preparation or the verification phase.

NOTE 1: It is not expected that a reading procedure on EF contents can be performed whilst the test procedure is executed.

The test environment needed to perform contents verification is identical to the test environment shown for implicit testing.

NOTE 2: A test toolkit applet can be used for testing USAT specific test cases in the present document and EF content verification method is not applicable for verifying USAT specific requirements.

4.1.3 Example - test environment for seamless testing

Seamless testing within the scope of the present document relies on monitoring of data transfer between ME and nrUSIM traced by a software interface between nrUSIM and baseband implemented by the ME vendor.

The logged communication can be transferred to the TT and will be used to determine if conformance requirements are met.

NOTE: A test toolkit applet can be used for testing USAT specific test cases in the present document and TT shall be able to trigger proactive commands using the applet if required by the test. Refer to Annex A.1 for examples of test EFs required for the applet.

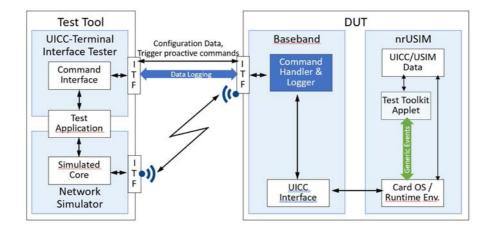


Figure 4.2: Test environment for seamless testing

4.1.4 Example – test environment for test toolkit events based testing

Test toolkit events based testing within the scope of the present document is applicable for UEs supporting the required USIM application toolkit functionality. A toolkit applet is installed onto the nrUSIM, capable of handling test events internal to the card runtime environment and the applets to monitor APDUs received at the nrUICC.

NOTE 1: The same test toolkit applet can be used for testing USAT specific test cases in the present document and TT shall be able to trigger proactive commands using the applet if required by the test. Refer to Annex A.2 for examples of test EFs required for the applet.

The logged events can be stored in a test EF during the test execution phase and transferred to the TT during the verification phase to determine if conformance requirements are met.

NOTE 2: A test toolkit applet can be used for testing USAT specific test cases in the present document and EF content verification method is not applicable for verifying USAT specific requirements.

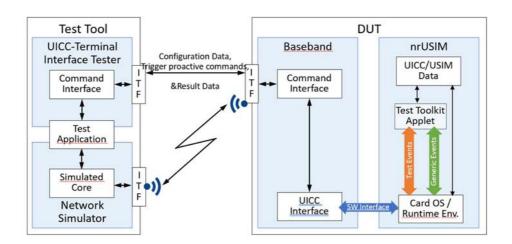


Figure 4.4: Test environment for test toolkit events based testing

Please see the required "Test configuration state" in Annex N and the "Examples of test configuration usage" in Annex O of ETSI TS 102 221 [8]

4.2 Requirements to the EUT and the test environment

4.2.1 General Requirements

All tests defined in the subsequent clauses apply to UEs operating an nrUSIM/nrUICC, what implies that the UICC-Terminal interface cannot be exposed to a TT. Thus, direct tracing and explicit verification of APDUs or data sent via the UICC-Terminal interface is not possible. As explicit verification of APDUs, data or file contents is needed to verify a conformance requirement the implementation and applicability has to be declared (see also clause 3.7.1).

The tests are not applicable for UEs providing a UICC-Terminal interface in accordance with interface form factors defined in ETSI TS 102 221 [8] or ETSI TS 102 671 [22].

The following sequence of tests confirms:

- a) the usage of the test specific UICC/USIM data;
- b) the correct interpretation of data read from the USIM (Universal Subscriber Identification Module) by the ME;
- c) the correct writing of data to the USIM by the ME;
- d) the initiation of appropriate procedures by the ME;
- e) the correct execution of functions

All tests apply to the USIM application on the UICC or an equivalent application implemented in accordance with the ETSI SSP specifications ETSI TS 103 666-1 [10], ETSI TS 103 666-2 [11] and ETSI TS 103 666-3 [12]

For the proactive command test cases in clause 10 and its subclauses:

- a test toolkit applet shall be used for verifying test case specific proactive commands and TT shall be able to trigger proactive commands using the applet as required by the test,

and

- one or more test specific EFs may be required to program data required for the proactive commands.

4.2.2 Requirements to the UE (EUT) – supported interfaces

The EUT has to support interfaces and administration methods to allow the TT or the User to set the initial conditions defined for the test cases. Where the EUT may be solely the UE or the UE connected to an interface device.

NOTE: The connection of the UE and an interface device is set up similar to what is described in the Companion Device scenario in GSMA SGP.22 [23], but not limited to remote SIM provisioning functionality.

Suggested interfaces:

- Wi-Fi (IEEE 802.11-2016 [13])
- USB (USB-IF, USB 2.0 or higher)

The UE has to support at least one of the following data transfer methods:

- RFM and OTA via ETSI TS 102 225 [14] and ETSI TS 102 226 [15]
- AT commands as defined in TS 27.007 [16]
- JavaTMCard as defined in TS 31.130 [17]

Even though the availability of at least one of the suggested interfaces and one of the suggested data transfer methods is recommended, interfaces and methods for UICC/USIM preparation for testing purposes are to be provided by the UE vendor and are out of scope of the present document.

4.2.3 Supported RATs

UEs tested in accordance with the present document shall support any 3GPP defined RATs. Test cases defined in the present document may contain RAT or RAN specific conformance requirements and methods of test. The applicability of the individual test cases can be determined by using Table B.1.

Tests that would require 2G network access (GERAN) an 3G network access (UTRAN) are out of scope of the present document.

4.2.4 Initial and final procedure steps

Initial and final procedure steps are out of scope of the current specification to not explicitly exclude methods that might be used to get a UE set up at test case start or to have it 'cleaned up' at the end of a test (if required).

The testing person has to ensure that the UE has installed test specific the UICC and USIM data in accordance with the definitions of the particular test (see note). The UE has to be accessible and is brought into a specific reception mode if required by the test case. It has to be ensured that interfaces that are used to verify file data or a specific functionality do not interfere or block the operation of the test procedure as defined within this specification.

For verification purposes an interaction with the UE is allowed even after ending the defined test procedure. If such interaction takes place it has to be reported to the TT. A verification of conformance requirements that is based on data or information that is generated during this post-procedure interaction has to be identifiable as a post process but can be used for the result generation.

NOTE: For all EFs, DFs and ADFs building the UICC and USIM where no data is explicitly defined in the test or by reference, an appropriate test value can be used (e.g.: values from GSMA TS.48 [9]).

4.3 Suitability assessment

Verification by "implicit" methods is not applicable for the USAT conformance requirements defined in the present document. Either the seamless testing method (A.4/2) defined in clause 4.1.3 or the test events-based method (A.4/1) defined in clause 4.1.4 depending on the device and nrUICC capabilities shall be used for verifying conformance requirements defined in the present document.

4.4 Definition of nrUICC values and System Simulator parameters for USAT testing

4.4.1 Introduction

4.4.1.1 Installation, provisioning or modification methods for EFs and DFs

Installation, provisioning or modification methods for EFs and DFs defined in the UICCs/USIMs used for testing or in the test cases are out of scope of the present document. Respective methods have to be provided by the UE vendor.

4.4.1.2 GSMA TS.48 Version and usage

Unless stated differently in the test description or a specific UICC definition, GSMA TS.48 eSIM GTP v5.0 is used.

The usage of file values defined in GSMA TS.48 [9] does not imply that remote SIM provisioning as defined in GSMA or profiles as defined by the Trusted Connectivity Alliance (TCA) have to be supported by the nrUSIM.

4.4.2 Definition of default values for USAT testing

4.4.2.1 Applications on the default nrUICC

The default configuration of the nrUICC shall host at least one USIM application.

4.4.2.2 Definition of USIM default values

The USIM application shall be configured as defined in GSMA TS.48 [9] with the following exceptions to file definitions:

EF_{UST} (USIM Service Table)

Logically:

Service n°1:	Local Phone Book	available
Service n°2:	Fixed Dialling Numbers (FDN)	available
Service n°6:	Barred Dialling Numbers (BDN)	available
Service n°10:	Short Message Storage (SMS)	available
Service n°11:	Short Message Status Reports (SMSR)	available
Service n°12:	Short Message Service Parameters (SMSP)	available
Service n°15:	Cell Broadcast Message Identifier	available
Service n°17:	Group Identifier Level 1	not available
Service n°18:	Group Identifier Level 2	not available
Service n°20:	User controlled PLMN selector with Access Technology	available
Service n°22:	Image (IMG)	available
Service n°27:	GSM Access	available
Service n°28:	Data download via SMS-PP	available
Service n°29:	Data download via SMS-CB	available
Service n°30:	Call Control by USIM	not available
Service n°31:	MO-SMS Control by USIM	not available
Service n°32:	RUN AT COMMAND command	available
Service n°33:	shall be set to '1'	available
Service n°34:	Enabled Services Table	available
Service n°85	EPS Mobility Management Information	available
Service n°86	Allowed CSG Lists and corresponding indications	not available

Coding:

Byte	B1	B2	В3	B4	B5	B6	B7	B8
binary	xx1x xx11	x1xx 111x	xx1x 1x00	1001 11xx	xxx xx11	XXXX XXXX	XXXX XXXX	XXXX XXXX
	B9	B10	B11					
	XXXX XXXX	XXXX XXXX	xx01 xxxx					

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF_{EST} (Enabled Services Table)

Logically:

Fixed Dialling Numbers (FDN) Service n°1: Barred Dialling Numbers (BDN) Service n°2:

APN Control List (ACL) Service n°3:

Coding:

Byte	B1
Hex	00

EF_{IMSI} (International Mobile Subscriber Identity)

Logically:

Length: 8 bytes

IMSI: 001 01 0123456789

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9
Hex	08	09	10	10	10	32	54	76	98

EF_{AD} (Administrative Data)

Logically:

Type approval operations

OFM to be deactivated by the Terminal

MNC: 2 digit

Coding:

Byte	B1	B2	B3	B4
Hex	80	00	00	02

EF_{LOCI} (**Location Information**)

Logically:

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

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Hex	FF	FF	FF	FF	00	F1	10	00	01	FF	00

EF_{EPSLOCI} (EPS Information)

Logically:

GUTI: 0010100010266341122

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

Coding:

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

EF_{EPSNSC} (EPS NAS Security Context)

Logically:

Key Set Identifier KSIASME: '07' (no key available)
ASME Key (KSIASME): 32 byte key, any value

Uplink NAS count: '00'
Downlink NAS count: '00'
Identifiers of selected NAS integrity
and encryption algorithm: 'FF'

Coding:

Byte	B1	B2	В3	B4	B5	В6	B7	B8			B39	B40
Hex	A0	34	80	01	07	81	20	XX			XX	82
	B41	B42	B43	B44	B45	B46	B47	B48	B49	B50	B51	B52
	04	00	00	00	00	83	04	00	00	00	00	84
	B53	B54										

EF_{CBMI} (Cell Broadcast Message Identifier)

01

Logically:

Cell Broadcast Message Identifier 1: '03 E7'

FF

Coding:

Byte	B1	B2	B3	 Bx
Hex	03	E7	FF	 FF

EFCBMID (Cell Broadcast Message Identifier for Data Download)

Logically:

Cell Broadcast Message Identifier 1: '10 01'

Coding:

Byte	B1	B2	B3	 Bx
Hex	10	01	FF	 FF

EF_{FDN} (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:

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

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

Record 3:

Length of alpha identifier: 6 characters; Alpha identifier: "FDN333"; "0B"; Length of BCD number:

TON and NPI: Telephony and International; Dialled number: +12345678901234567890;

CCI: None; Ext2: None.

Coding for record 3:

Byte	B1	B2	В3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Hex	46	44	4E	33	33	33	0B	91	21	43	65	87
	B13	B14	B15	B16	B17	B18	B19	B20				
	09	21	43	65	87	09	FF	FF				

EF_{BDN} (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:

Byte	B1	B2	В3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Hex	42	44	4E	31	31	31	06	91	31	75	29	64
	B13	B14	B15	B16	B17	B18	B19	B20	B21			
	08	FF										

Record 2:

Length of alpha identifier: 6 characters; "BDN222"; Alpha identifier: Length of BCD number: "03";

TON and NPI: Telephony and Unknown;

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

Coding for record 2:

Byte	B1	B2	B3	B4	B5	В6	B7	B8	B9	B10	B11	B12
Hex	42	44	4E	32	32	32	04	81	21	F2	FF	FF
	B13	B14	B15	B16	B17	B18	B19	B20	B21			
	FF											

Record 3:

Length of alpha identifier: 6 characters; Alpha identifier: "BDN333";

Length of BCD number: "03";

TON and NPI: Telephony and Unknown;

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

Coding for record 3:

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

EF_{ECC} (Emergency Call Codes)

Logically:

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

Coding:

Byte	B1	B2	В3	B4	B5	B6	B7	B8
Hex	21	F2	FF	54	45	53	54	00

EF_{SMSS} (SMS Status)

Logically:

Last used TP-MR set to "00".

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

Coding:

Byte	B1	B2
Hex	00	FF

EF_{SMSP} (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 for record 1:

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

For the display of icon: See ETSI TS 102 384 [3] clause 27.22.1B.

NOTE: For test sequences executed in accordance with the present specification, the listed values replace the configurations defined in TS 31.124 [2], clause 27.22.2A and 27.22.2B.1.

4.4.2.3 Definition of DF_TELECOM default values

EF_{PSISMSC} (Public Service Identity of the SM-SC)

1 record only.

Logically:

Record 1:

Public Service Identity of the SM-SC:

tel:+112233445566778

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Hex	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		Bxx
	37	38	FF	FF	FF	FF	FF	FF		FF

4.4.3 Definition of nrUICC values and System Simulator parameters for USAT testing - E-UTRAN/EPC

4.4.3.1 Applications on the E-UTRAN/EPC nrUICC

The E-UTRAN/EPC nrUICC shall host at least one USIM application as defined in clause 4.4.3.2. If IMS access is required the nrUICC shall host an ISIM as defined in clause 4.4.3.3 in addition.

4.4.3.2 Definition of E-UTRAN/EPC USIM values

The values of the E-UTRAN/EPC USIM are identical to the values defined for the default USIM in clause 4.4.2.2 of the present document.

NOTE: For test sequences executed in accordance with the present specification, the listed values may replace the configurations defined in TS 31.124 [2], clause 27.22.2B.1.

4.4.3.3 Definition of E-UTRAN/EPC ISIM values

The E-UTRAN/EPC ISIM shall allow IMS access and shall be configured with the following values:

EF_{AD} (Administrative Data)

Logically: Type approval operations

Coding:

Byte	B1	B2	B3
Hex	80	00	00

EFIST (ISIM Service Table)

Logically:

Service n°1:P-CSCF addressavailableService n°2Generic Bootstrapping Architecture (GBA)not availableService n°3HTTP Digestnot available

Service n°4GBA-based Local Key Establishment Mechanismnot availableService n°5Support of P-CSCF discovery for IMS Local Break Outnot availableService n°6Short Message Storage (SMS)availableService n°7Short Message Status Reports (SMSR)availableService n°8Support for SM-over-IP including data download viaavailable

SMS-PP as defined in TS 31.111 [20]

Coding:

Byte	B1
binary	1110 0001

EFIMPI (IMS private user identity)

Logically: 001010123456789@test.3gpp.com

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Hex	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								

EF_{DOMAIN} (Home Network Domain Name)

Logically: test.3gpp.com

Coding;

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Hex	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

EFIMPU (IMS public user identity)

Record 1:

Logically: sip:001010123456789@ims.mnc246.mcc081.3gppnetwork.org

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Hex	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

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Hex	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

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Hex	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									

EF_{P-CSCF} (P-CSCF ADDRESS)

Logically:

Address Type: FQDN

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

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Hex	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.

EF_{SMS} (Short Message Service)

At least 10 records.

All records shall be empty.

Logically: Status byte set to empty.

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

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	 B176
Hex:	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	 FF

EF_{SMSR} (Short message status reports)

This EF shall contain as many records as EF $_{\text{SMS}}$.

All records shall be empty.

Logically: Status byte set to empty.

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

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Hex	00	FF								
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	FF									
	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
	FF									

EF_{SMSP} (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:

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

All other records shall be empty.

EF_{SMSS} (SMS Status)

Logically:

Last used TP-MR set to "00".

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

Coding:

Byte	B1	B2
Hex	FD	FF

NOTE: For test sequences executed in accordance with the present specification, the formerly listed values replace the is configuration defined in TS 31.124 [2], clause 27.22.2C.3

4.4.3.4 Definition of E-UTRAN System Simulator 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 of TS 36.508 [5], clause 6.6.1 "Reference default EPS bearer context #1".

The default PDP type shall be "IP".

4.4.4 Definition of nrUICC values and System Simulator parameters for USAT testing - NG-RAN

4.4.4.1 Applications of the NG-RAN nrUICC

The NG-RAN nrUICC shall host at least one USIM application as defined in clause 4.4.4.2, 4.4.4.3 or 4.4.4.4. If the nrUICC configuration shall allow IMS access it shall host an ISIM as defined in clause 4.4.4.5 in addition

4.4.4.2 Definition of NG-RAN USIM

The NG-RAN USIM application shall be configured as the default USIM in clause 4.4.2.2 of the present document with the following exceptions or additions:

EF_{UST} (USIM Service Table)

Logically:

Settings for services $n^{\circ}1$ to $n^{\circ}85$ in EF_{UST} are set as defined in clause 4.4.2.2. The following changes and additions apply:

Service n°86	Allowed CSG Lists and corresponding indications	available
Service n°122	5GS Mobility Management Information	available
Service n°123	5G Security Parameters	available
Service n°124	Subscription identifier privacy support	available
Service n°125	SUCI calculation by the USIM	not available

Coding:

Byte	B1	B2	B3	B4	B5	В6	B7	B8
binary	xx1x xx11	x1xx 111x	xx1x 1x00	1001 11xx	xxx xx11	XXXX XXXX	XXXX XXXX	XXXX XXXX
	B9	B10	B11		B16			
	XXXX XXXX	XXXX XXXX	xx01 xxxx		xxx0 111x			

The coding of EF_{UST} shall conform with the capabilities of the USIM used.

EF5GS3GPPLOCI (5GS 3GPP location information)

Logically:

5G-GUTI: FF FF FF FF FF FF FF FF FF FF FF FF

TAI: 246 081 000000 5GS update status: 5U2 NOT UPDATED

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Hex	FF FF	FF	FF									
	B13	B14	B15	B16	B17	B18	B19	B20				
	FF	42	16	80	00	00	00	01				

EF_{SUCI_Calc_Info} (Subscription Concealed Identifier Calculation Information EF)

Logically:

Protection Scheme Identifier List data object Protection Scheme Identifier 1: null Key Index 1: 0

Coding:

Byte	B1	B2	В3	B4	B5	В6
Hex	A0	02	00	00	A1	00

EF_{Routing_Indicator} (Routing Indicator EF)

Logically:

Routing Indicator: 17

Coding:

Byte	B1	B2	В3	B4
Hex	71	FF	00	00

EF_{5GS3GPPNSC} (5GS 3GPP Access NAS Security Context EF)

Logically:

5GS NAS Security Context:

ngKSI: 00

K_{AMF}: 32 bytes, value not checked

Uplink NAS count: any value
Downlink NAS count: any value
Identifiers of selected NAS: any value

integrity and encryption algorithms:

Identifiers of selected EPS NAS: any value

integrity and encryption algorithms for use after mobility to EPS

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	Bx
Hex	A0	XX	80	01	00	81	XX	XX		XX

NOTE: For test sequences executed in accordance with the present specification, the formerly listed values replace the is configuration defined in TS 31.124 [2], clause 27.22.2D.1

4.4.4.3 Definition of NG-RAN USIM supporting Rel-17 features

The NG-RAN USIM application supporting Rel-17 features shall be configured as the NG-RAN USIM in clause 4.4.4.2 of the present document with the following exceptions or additions:

EF_{UST} (USIM Service Table)

Logically:

Service n°1 to n°146 defined see coding

Service n°147 to n°152 not defined not available

Coding:

Byte:	B1	B2	B3	B4	B5	B6	B7	B8
Binary:	xxxx xx1x	XXXX XXXX	xxxx 1x00	xxxx x1xx	xxxx xx11	XXXX XXXX	XXXX XXXX	XXXX XXXX
	B9	B10	B11		B16	B17	B18	B19
	XXXX XXXX	XXXX XXXX	xx11 xxxx		xxx0 111x	XXXX XXXX	XXXX XXXX	0000 00xx

NOTE: For test sequences executed in accordance with the present specification, the formerly listed values replace the is configuration defined in TS 31.124 [2], clause 27.22.2D.3

4.4.4.4 Definition of NG-RAN USIM supporting CAG

The NG-RAN USIM application supporting CAG features shall be configured as the NG-RAN USIM in clause 4.4.4.2 of the present document with the following exceptions or additions:

EF_{UST} (USIM Service Table)

Logically:

Service n°1 to n°136 defined see coding
Service n°137: Preconfigured CAG information list available
Service n°138 to 146 defined see coding
Service n°147 to not defined not available

n°152

Coding:

Byte:	B1	B2	B3	B4	B5	B6	B7	B8
Binary:	xxxx xx1x	XXXX XXXX	xxxx 1x00	xxxx x1xx	xxxx xx11	XXXX XXXX	XXXX XXXX	XXXX XXXX
	B9	B10	B11		B16	B17	B18	B19
	XXXX XXXX	XXXX XXXX	xx11 xxxx		xxx0 111x	XXXX XXXX	xxxx xxx1	0000 00xx

EF_{CAG} (Pre-configured CAG information list)

Logically:

PLMN: 244 083 (MCC MNC)

CAG only: 1 Range indication: 1

CAG-ID range: 00 00 00 01 – 00 00 00 07 PLMN: 244 084 (MCC MNC)

CAG only: 1 Range indication: 1

CAG-ID range: 00 00 00 01 - 00 00 00 07

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Hex	00	1A	0C	42	34	80	03	00	00	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	01	00	00	00	07	0C	42	44	80	03
	B21	B22	B23	B24	B25	B26	B27	B28		
	00	00	00	01	00	00	00	07		

EF_{CAG} (Pre-configured CAG information list)

Logically:

PLMN: 244 083 (MCC MNC)

CAG only: 1 Range indication: 1 CAG-ID range: 00 00 00 01 – 00 00 00 07 PLMN: 244 084 (MCC MNC)

CAG only: 1 Range indication: 1

CAG-ID range: 00 00 00 01 – 00 00 00 07

Coding:

Byte	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Hex	00	1A	0C	42	34	80	03	00	00	00
	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
	01	00	00	00	07	0C	42	44	80	03
	B21	B22	B23	B24	B25	B26	B27	B28		
	00	00	00	01	00	00	00	07		

NOTE: For test sequences executed in accordance with the present specification, the formerly listed values replace the is configuration defined in TS 31.124 [2], clause 27.22.2D.4

4.4.4.5 Definition of NG-RAN ISIM values

The NG-RAN ISIM shall contain an ISIM configuration as defined in clause 4.4.3.3 of the present document.

NOTE: For test sequences executed in accordance with the present specification, the formerly listed values replace the is configuration defined in TS 31.124 [2], clause 27.22.2E.2

4.4.4.6 Definition of NG-RAN System Simulator parameters

The default NG-RAN parameters of the system simulator are:

Mobile Country Code (MCC) = 001;
Mobile Network Code (MNC) = 01;
Tracking Area Code (TAC) = 000001;
Cell Identity value = 0001 (36 bits).

5 Testing methodology in general

When possible, the present document refers to ETSI TS 102 384 [3] 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 SAT-NG-SS, NG-SS/NB-SS/E-USS 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 a Next Generation System Simulator when accessing a NG-RAN, a Satellite Next Generation System Simulator when accessing a SAT-NG-RAN, a 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.

5.3 Information to be provided by the apparatus supplier

The information to be provided by the apparatus supplier specified in TS 38.508-1 [4], TS 36.523-2 [24], TS 36.508 [5] and TS 34.108 [6] 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	Option	Status	Support	Mnemonic	
For the declaration of the ME's default configuration the contents of Table A.2 as defined in TS 31.124 [2]clause 5.3					
shall be used.					

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 must be explicitly tested, e.g. the ability to switch between $1.8\ V$ and $3.0\ V$ 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

The Format of tests defined in TS 31.124 [2], clause 8 applies.

9 Generic call set up procedures

The generic call set up procedures as defined in TS 31.124 [2], clause 9 apply.

10 USIM Application Toolkit (USAT) testing on an ME with non-removable UICC

10.1 Introduction

The introduction provided in TS 31.124 [2], clause 27.0 applies.

10.2 General Test purpose

The General Test purpose defined in TS 31.124 [2], clause 27.22.1A applies.

10.3 Initialization of USAT functionality on an ME with non-removable UICC

10.3.1 Verification of the USAT support on an ME with non-removable UICC (Profile Download)

10.3.1.1 Definition and applicability

See clause 3.6.2 of the present document.

10.3.1.2 Conformance requirement

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

- TS 31.111 [20] clause 5.2.

10.3.1.3 Test purpose

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

10.3.1.4 Method of test

10.3.1.4.1 Initial conditions

The ME is connected to the TT. The nrUICC in the ME is configured as defined in clause 4.4.2 of the present document and hosts a USIM with elementary files coded as defined in clause 4.4.2.2.

10.3.1.4.2 Procedure

Expected Sequence 1 (PROFILE DOWNLOAD)

Step	Direction	Message / Action	Information
1	$USER \to ME$	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	$ME \to UICC$	Select USIM Application	

TERMINAL PROFILE: 1.1

Logically:

Coding:

APDU	CLA=80	INS=10	P1=00	P2=00	P3=XX
					<u> </u>
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 [20], clause 5.2.

NORMAL ENDING OF COMMAND: 1.1

Logically:

Coding:

SW1=90	SW2=00

10.3.1.5 Test requirement

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

10.3.2 Contents of the TERMINAL PROFILE command

10.3.2.1 Definition and applicability

See table E.1 in annex B of TS 31.124 [2].

10.3.2.2 Conformance requirement

CR 1 The ME shall support the PROFILE DOWNLOAD command as defined in:

- TS 31.111 [20] clause 5.2.

10.3.2.3 Test purpose

The purpose of this test is to:

- 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.

10.3.2.4 Method of test

10.3.2.4.1 Initial conditions

The ME is connected to the TT. The nrUICC in the ME is configured as defined in clause 4.4.2 of the present document and hosts a USIM with elementary files coded as defined in clause 4.4.2.2.

10.3.2.4.2 Procedure

Step	Direction	Action	Information
1	USER > ME	Power on ME	[UICC Activation]
2	ME > TT	Send TERMINAL PROFILE	The TT shall record the content of the TERMINAL PROFILE
3	UICC > ME	Return SW1/SW2: '90 00'	
4	USER > ME	Power off ME	

10.3.2.5 Test requirement

The ME shall operate in the manner defined in the test procedure.

10.3.2.6 Acceptance criteria

CR 1 is met if a TERMINAL PROFILE command with bit 1 of the first byte set to 1 (facility supported by ME) is sent and if the TERMINAL PROFILE information "support" recorded is in accordance with the "Status" column as defined in table E.1 for the corresponding ME USIM Toolkit Release and Options

NOTE: Support of features defined only in releases later than currently tested release shall be ignored.

10.3.3 Servicing of proactive UICC commands

10.3.3.1 Definition and applicability

See clause 3.6.2 of the present document.

10.3.3.2 Conformance requirement

- CR 1 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.
 - TS 31.111 [20] clause 6.3.

NOTE: 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.

10.3.3.3 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.

10.3.3.4 Method of test

10.3.3.4.1 Initial conditions

The ME is connected to the TT. The nrUICC in the ME is configured as defined in clause 4.4.2 of the present document and hosts a USIM with elementary files coded as defined in clause 4.4.2.2.

A process is established to make the nrUSIM indicate that a proactive UICC command is pending. The nrUSIM is configured to send the Proactive command 'MORE TIME'.

A test toolkit applet shall be used for generating proactive UICC commands specific to the test case and TT shall be able to trigger the MORE TIME proactive commands using the applet. One or more test specific EFs may be required to program data required for the proactive command.

Depending on the capabilities supported by device and nrUICC, APDUs of FETCH and TERMINAL RESPONSE commands shall be verified using either of the methods defined in clauses 4.1.3 and 4.1.4 of the present document (A.4/2 and A.4/1).

10.3.3.4.2 Procedure

Step	Direction	MESSAGE / Action	Information / Comments
1	USER > ME	Power on ME	[UICC Activation]
2	ME	Execute PROFILE DOWNLOAD	
3	nrUSIM > ME	Return SW1/SW2: '91 0B'	The nrUSIM indicates that a Proactive UICC
			Command is pending
4	ME > nrUSIM	Send FETCH command	

5	nrUSIM > ME	Return Proactive UICC Command 2.1: MORE	
		TIME	
6	USER > ME	Power off ME	

10.3.3.5 Test requirement

The ME shall operate in the manner defined in the test procedure.

10.3.3.6 Acceptance criteria

CR 1 is met if the ME sends a FETCH command in step 4) and it can be verified via A.4/x method that the TERMINAL RESPONSE command with command number "01", type of command "02" and command qualifier "00".

10.4 Proactive UICC commands

10.4.1 DISPLAY TEXT

10.4.1.1 DISPLAY TEXT (Normal)

For test sequences 1.1 to 1.9 the test descriptions from TS 31.124 [2], clause 27.22.4.1.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

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

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.4.1.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.1.3 DISPLAY TEXT (Display of extension text)

For test sequence 3.1 the test descriptions from TS 31.124 [2], clause 27.22.4.1.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.1.4 DISPLAY TEXT (Sustained text)

For test sequences 4.1 to 4.3 the test descriptions from TS 31.124 [2], clause 27.22.4.1.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.1.5 DISPLAY TEXT (Display of icons)

For test sequences 5.1 to 5.3 the test descriptions from TS 31.124 [2], clause 27.22.4.1.5 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.1.6 DISPLAY TEXT (UCS2 display in Cyrillic)

For test sequence 6.1 the test descriptions from TS 31.124 [2], clause 27.22.4.1.6 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.1.7 DISPLAY TEXT (Variable Time out)

For test sequence 7.1 the test descriptions from TS 31.124 [2], clause 27.22.4.1.7 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.1.8 DISPLAY TEXT (Support of Text Attribute)

For test sequences 8.1 to 8.10 the test descriptions from TS 31.124 [2], clause 27.22.4.1.8 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.1.9 DISPLAY TEXT (UCS2 display in Chinese)

For test sequence 9.1 the test descriptions from TS 31.124 [2], clause 27.22.4.1.9 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.1.10 DISPLAY TEXT (UCS2 display in Katakana)

For test sequence 10.1 the test descriptions from TS 31.124 [2], clause 27.22.4.1.10 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2 GET INKEY

10.4.2.1 GET INKEY (Normal)

For test sequences 1.1 to 1.6 the test descriptions from TS 31.124 [2], clause 27.22.4.2.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply

- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2.2 GET INKEY (No response from User)

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.4.2.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2.3 GET INKEY (UCS2 display in Cyrillic)

For test sequence 3.1 and 3.2 the test descriptions from TS 31.124 [2], clause 27.22.4.2.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2.4 GET INKEY (UCS2 entry in Cyrillic)

For test sequence 4.1 the test descriptions from TS 31.124 [2], clause 27.22.4.2.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2.5 GET INKEY ("Yes/No" Response)

For test sequence 5.1 the test descriptions from TS 31.124 [2], clause 27.22.4.2.5 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2,

10.4.2.6 GET INKEY (Display of icons)

For test sequences 6.1 to 6.4 the test descriptions from TS 31.124 [2], clause 27.22.4.2.6 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2,

10.4.2.7 GET INKEY (Help Information)

For test sequence 7.1 the test descriptions from TS 31.124 [2], clause 27.22.4.2.7 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2.8 GET INKEY (Variable Time out)

For test sequence 8.1 the test descriptions from TS 31.124 [2], clause 27.22.4.2.8 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2.9 GET INKEY (Support of Text Attribute)

For test sequence 9.1 to 9.10 the test descriptions from TS 31.124 [2], clause 27.22.4.2.9 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2.10 GET INKEY (UCS2 display in Chinese)

For test sequences 10.1 and 10.2 the test descriptions from TS 31.124 [2], clause 27.22.4.2.10 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2.11 GET INKEY (UCS2 entry in Chinese)

For test sequence 11.1 the test descriptions from TS 31.124 [2], clause 27.22.4.2.11 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2.12 GET INKEY (UCS2 display in Katakana)

For test sequences 12.1 and 12.2 the test descriptions from TS 31.124 [2], clause 27.22.4.2.12 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.2.13 GET INKEY (UCS2 entry in Katakana)

For test sequence 13.1 the test descriptions from TS 31.124 [2], clause 27.22.4.2.13 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3 GET INPUT

10.4.3.1 GET INPUT (Normal)

For test sequences 1.1 to 1.10 the test descriptions from TS 31.124 [2], clause 27.22.4.3.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.2 GET INPUT (No response from User)

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.4.3.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.3 GET INPUT (UCS2 display in Cyrillic)

For test sequences 3.1 and 3.2 the test descriptions from TS 31.124 [2], clause 27.22.4.3.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.4 GET INPUT (UCS2 entry in Cyrillic)

For test sequences 4.1 and 4.2 the test descriptions from TS 31.124 [2], clause 27.22.4.3.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.5 GET INPUT (Default text)

For test sequences 5.1 and 5.2 the test descriptions from TS 31.124 [2], clause 27.22.4.3.5 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.6 GET INPUT (Display of icons)

For test sequences 6.1 to 6.4 the test descriptions from TS 31.124 [2], clause 27.22.4.3.6 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.7 GET INPUT (Help Information)

For test sequence 7.1 the test descriptions from TS 31.124 [2], clause 27.22.4.3.7 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.8 GET INPUT (Support of Text Attribute)

For test sequences 8.1 to 8.10 the test descriptions from TS 31.124 [2], clause 27.22.4.3.8 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.9 GET INPUT (UCS2 display in Chinese)

For test sequences 9.1 and 9.2 the test descriptions from TS 31.124 [2], clause 27.22.4.3.9 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.10 GET INPUT (UCS2 entry in Chinese)

For test sequences 10.1 and 10.2 the test descriptions from TS 31.124 [2], clause 27.22.4.3.10 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.11 GET INPUT (UCS2 display in Katakana)

For test sequences 11.1 and 11.2 the test descriptions from TS 31.124 [2], clause 27.22.4.3.11 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.3.12 GET INPUT (UCS2 entry in Katakana)

For test sequences 12.1 and 12.2 the test descriptions from TS 31.124 [2], clause 27.22.4.3.12 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.4 MORE TIME

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.4.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.5 PLAY TONE

10.4.5.2 PLAY TONE (UCS2 display in Cyrillic)

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.4.5.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.5.3 PLAY TONE (Display of icons)

For test sequences 3.1 and 3.4 the test descriptions from TS 31.124 [2], clause 27.22.4.5.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.5.4 PLAY TONE (Support of Text Attribute)

For test sequences 4.1 to 4.10 the test descriptions from TS 31.124 [2], clause 27.22.4.5.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.5.5 PLAY TONE (UCS2 display in Chinese)

For test sequence 5.1 the test descriptions from TS 31.124 [2], clause 27.22.4.5.5 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.5.6 PLAY TONE (UCS2 display in Katakana)

For test sequence 6.1 the test descriptions from TS 31.124 [2], clause 27.22.4.5.6 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.6 POLL INTERVAL

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.4.6 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.7 REFRESH

10.4.7.1 REFRESH (Normal)

For test sequences 1.3 and 1.5 the test descriptions from TS 31.124 [2], clause 27.22.4.7.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.
- If not available already, the nrUICC is configured to provide a global phonebook to execute test sequence 1.3.

Test sequences 1.1, 1.2, 1.4, 1.6 and 1.7 are not applicable to MEs operating a nrUICC.

10.4.7.2 REFRESH (IMSI changing procedure)

FFS

10.4.7.3 REFRESH (Steering of roaming)

For test sequences 3.3 and 3.4 the test descriptions from TS 31.124 [2], clause 27.22.4.7.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- For test sequences 3.3 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2 plus the additional parameters provided for sequence 3.3 in TS 31.124 [2], clause 27.22.4.7.3.4.1.
- For test sequences 3.4 the USIM is configured with values for USIM Application Toolkit testing as defined in clause 4.4.5 of the present document plus the additional parameters provided for sequence 3.4 in TS 31.124 [2], clause 27.22.4.7.3.4.1.

Test sequences 3.1 and 3.2 are not applicable to MEs operating a nrUICC.

10.4.7.4 REFRESH (AID)

For test sequence 4.1 the test descriptions from TS 31.124 [2], clause 27.22.4.7.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2. and an ISIM as defined in clause 4.4.3.3.

10.4.7.5 REFRESH (IMSI changing procedure, E-UTRAN)

For test sequences 5.1 and 5.2 the test descriptions from TS 31.124 [2], clause 27.22.4.7.5 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2.

10.4.7.6 REFRESH (IMSI changing procedure, NG-RAN)

For test sequences 6.1 to 6.4 the test descriptions from TS 31.124 [2], clause 27.22.4.1.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply

- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2.

10.4.7.7 REFRESH (SUPI_NAI changing procedure, NG-RAN)

For test sequences 7.1 to 7.4 the test descriptions from TS 31.124 [2], clause 27.22.4.7.7 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the exceptions defined in clause 27.22.4.7.7.4.1 of TS 31.124 [2].
- The NG-RAN simulator of the TT is configured with the parameters provided in clause 27.22.4.7.7.4.1 of TS 31.124 [2].

10.4.7.8 REFRESH (USIM File Change Notification for Generic Bootstrapping Procedure Request, NG-RAN)

For test sequence 8.1 the test descriptions from TS 31.124 [2], clause 27.22.4.7.8 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the exceptions defined in clause 27.22.4.7.8.4.1 of TS 31.124 [2].
- The NG-RAN simulator of the TT is configured with the parameters provided in clause 27.22.4.7.8.4.1 of TS 31.124 [2].

10.4.8 SET UP MENU and ENVELOPE MENU SELECTION

10.4.8.1 SET UP MENU (Normal) and ENVELOPE MENU SELECTION

For test sequences 1.1 and 1.2 the test descriptions from TS 31.124 [2], clause 27.22.4.8.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.8.2 SET UP MENU (Help request support) and ENVELOPE MENU SELECTION

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.4.8.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.8.3 SET UP MENU (Help request support) and ENVELOPE MENU SELECTION

For test sequence 3.1 the test descriptions from TS 31.124 [2], clause 27.22.4.8.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.8.4 SET UP MENU (Display of icons) and ENVELOPE MENU SELECTION

For test sequences 4.1 and 4.2 the test descriptions from TS 31.124 [2], clause 27.22.4.8.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.8.5 SET UP MENU (Soft Keys support) and ENVELOPE MENU SELECTION

For test sequence 5.1 the test descriptions from TS 31.124 [2], clause 27.22.4.8.5 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.8.6 SET UP MENU (Support of Text Attribute) and ENVELOPE MENU SELECTION

For test sequences 6.1 to 6.10 the test descriptions from TS 31.124 [2], clause 27.22.4.8.6 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.8.7 SET UP MENU (UCS2 display in Cyrillic) and ENVELOPE MENU SELECTION

For test sequence 7.1 the test descriptions from TS 31.124 [2], clause 27.22.4.8.7 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.8.8 SET UP MENU (UCS2 display in Chinese) and ENVELOPE MENU SELECTION

For test sequence 8.1 the test descriptions from TS 31.124 [2], clause 27.22.4.8.8 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.8.9 SET UP MENU (UCS2 display in Katakana) and ENVELOPE MENU SELECTION

For test sequence 9.1 the test descriptions from TS 31.124 [2], clause 27.22.4.8.9 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9 SELECT ITEM

10.4.9.1 SELECT ITEM (Mandatory features for ME supporting SELECT ITEM)

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.4.9.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.2 SELECT ITEM (Next action support)

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.4.9.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.3 SELECT ITEM (Default item support)

For test sequence 3.1 the test descriptions from TS 31.124 [2], clause 27.22.4.9.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.4 SELECT ITEM ((Help request support)

For test sequence 4.1 the test descriptions from TS 31.124 [2], clause 27.22.4.9.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.5 SELECT ITEM (Icons support)

For test sequences 5.1 and 5.2 the test descriptions from TS 31.124 [2], clause 27.22.4.9.5 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.6 SELECT ITEM (Presentation style)

For test sequences 6.1 and 6.2 the test descriptions from TS 31.124 [2], clause 27.22.4.9.6 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.7 SELECT ITEM (Soft keys support)

For test sequence 7.1 the test descriptions from TS 31.124 [2], clause 27.22.4.9.7 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.8 SELECT ITEM (Support of "No response from user")

For test sequence 8.1 the test descriptions from TS 31.124 [2], clause 27.22.4.9.8 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.9 SELECT ITEM (Support of Text Attribute)

For test sequences 9.1 to 9.10 the test descriptions from TS 31.124 [2], clause 27.22.4.9.9 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.10 SELECT ITEM (UCS2 display in Cyrillic)

For test sequences 10.1 to 10.3 the test descriptions from TS 31.124 [2], clause 27.22.4.9.10 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.11 SELECT ITEM (UCS2 display in Chinese)

For test sequence 11.1 the test descriptions from TS 31.124 [2], clause 27.22.4.9.11 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.9.12 SELECT ITEM (UCS2 display in Katakana)

For test sequences 12.1 to 12.3 the test descriptions from TS 31.124 [2], clause 27.22.4.9.12 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.10 SEND SHORT MESSAGE

10.4.10.1 SEND SHORT MESSAGE (Normal)

FFS

10.4.10.2 SEND SHORT MESSAGE (UCS2 display in Cyrillic)

FFS

10.4.10.3 SEND SHORT MESSAGE (Icon support)

FFS

10.4.10.4 SEND SHORT MESSAGE (Support of Text Attribute)

FFS

10.4.10.5 SEND SHORT MESSAGE (UCS2 display in Chinese)

FFS

10.4.10.6 SEND SHORT MESSAGE (UCS2 display in Katakana)

FFS

10.4.10.7 SEND SHORT MESSAGE (IMS)

For test sequence 7.1 the test descriptions from TS 31.124 [2], clause 27.22.4.10.7.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2 and an ISIM as defined in clause 4.4.3.3.

Test sequence 7.2 is not applicable to MEs operating a nrUICC.

10.4.10.8 SEND SHORT MESSAGE (Over SGs in E-UTRAN)

For test sequence 8.1 the test descriptions from TS 31.124 [2], clause 27.22.4.10.8.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2.

10.4.11 SEND SS

FFS

10.4.12 SEND USSD

FFS

10.4.13 SET UP CALL

FFS

10.4.14 POLLING OFF

For test sequences 1.2 and 1.3 the test descriptions from TS 31.124 [2], clause 27.22.4.14.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- For sequence 1.2 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2.
- For sequence 1.3 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2.

Test sequence 1.1 is not applicable to MEs operating a nrUICC.

10.4.15 PROVIDE LOCAL INFORMATION

For test sequences 1.2, 1.4, 1.5, 1.9 to 1.11, 1.14 to 1.18 and 1.22 to 1.32 the test descriptions from TS 31.124 [2], clause 27.22.4.15.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- For test sequences 1.2, 1.4, 1.5, 1.9 to 1.11 and 1.14 to 1.18 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2.
- For test sequences 1.22 to 1.32 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2.

Test sequences 1.1, 1.3, 1.6, 1.7, 1.12 and 1.13 are not applicable to MEs operating a nrUICC.

Test sequence 1.8 is voided and test sequences 1.19 to 1.21 are "TBD" in TS 31.124 [2]. For editorial purposes the numbering in the present specification is kept identical.

10.4.16 SET UP EVENT LIST

FFS

10.4.17 PERFORM CARD APDU

10.4.17.1 PERFORM CARD APDU (Normal)

For test sequences 1.1 and 1.3 to 1.5 the test descriptions from TS 31.124 [2], clause 27.22.4.17.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

Test sequence 1.2 is not applicable to MEs operating a nrUICC.

10.4.17.2 PERFORM CARD APDU (Detachable card reader)

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.4.17.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.18 POWER OFF CARD

10.4.18.1 POWER OFF CARD (Normal)

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.4.18.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.18.2 POWER OFF CARD (Detachable card reader)

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.4.18.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.19 POWER ON CARD

10.4.19.1 POWER ON CARD (Normal)

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.4.19.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.19.2 POWER ON CARD (Detachable card reader)

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.4.19.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.20 GET READER STATUS

10.4.20.1 GET READER STATUS (Normal)

For test sequences 1.1 and 1.2 the test descriptions from TS 31.124 [2], clause 27.22.4.18.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.20.2 GET READER STATUS (Detachable card reader)

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.4.20.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.21 TIMER MANAGEMENT and ENVELOPE TIMER EXPIRATION

10.4.21.1 TIMER MANAGEMENT (Normal)

For test sequences 1.1 to 1.6 the test descriptions from TS 31.124 [2], clause 27.22.4.21.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.
- The nrUICC related test cases shall not validate the pre-defined hardcoded timer identifiers used in existing test descriptions, as variable timer identifiers may be used.

10.4.21.2 ENVELOPE TIMER EXPIRATION (Normal)

For test sequences 2.1 and 2.2 the test descriptions from TS 31.124 [2], clause 27.22.4.21.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.
- The nrUICC related test cases shall not validate the pre-defined hardcoded timer identifiers used in existing test descriptions, as variable timer identifiers may be used.

10.4.22 SET UP IDLE MODE TEXT

Test sequences for SET UP IDLE MODE TEXT currently defined in TS 31.124 [2] are not applicable for MEs operating a nrUICC. For editorial purposes the clause and the clause numbering are kept.

10.4.23 RUN AT COMMAND

10.4.23.1 RUN AT COMMAND (Normal)

For test sequences 1.1 to 1.3 the test descriptions from TS 31.124 [2], clause 27.22.4.23.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.23.2 RUN AT COMMAND (Icon support)

For test sequences 2.1 to 2.5 the test descriptions from TS 31.124 [2], clause 27.22.4.23.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.23.3 RUN AT COMMAND (Support of Text Attribute)

For test sequences 3.1 to 3.10 the test descriptions from TS 31.124 [2], clause 27.22.4.23.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply

- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.23.4 RUN AT COMMAND (UCS2 display in Cyrillic)

For test sequence 4.1 the test descriptions from TS 31.124 [2], clause 27.22.4.23.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.23.5 RUN AT COMMAND (UCS2 display in Chinese)

For test sequence 5.1 the test descriptions from TS 31.124 [2], clause 27.22.4.23.5 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.23.6 RUN AT COMMAND (UCS2 display in Katakana

For test sequence 6.1 the test descriptions from TS 31.124 [2], clause 27.22.4.23.6 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.24 SEND DTMF

FFS

10.4.25 LANGUAGE NOTIFICATION

For test sequences 1.1 and 1.2 the test descriptions from TS 31.124 [2], clause 27.22.4.25 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.26 LAUNCH BROWSER

10.4.26.1 LAUNCH BROWSER (No session already launched)

FFS

10.4.26.2 LAUNCH BROWSER (Interaction with current session)

FFS

10.4.26.3 LAUNCH BROWSER (UCS2 display in Cyrillic)

FFS

10.4.26.4 LAUNCH BROWSER (Icon Support)

FFS

10.4.26.5 LAUNCH BROWSER (Support of Text Attribute)

FFS

10.4.26.6 LAUNCH BROWSER (UCS2 Display in Chinese)

FFS

10.4.26.7 LAUNCH BROWSER (UCS2 Display in Katakana)

FFS

10.4.26.8 LAUNCH BROWSER (NG-RAN bearer)

For test sequences 8.1 to 8.5 the test descriptions from TS 31.124 [2], clause 27.22.4.20.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- For test sequences 8.1 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2.
- For test sequences 8.2 to 8.5 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 and an ISIM as defined in clause 4.4.4.5.
- Additional parameters provided in TS 31.124 [2], clause 27.22.4.26.8.4.1 apply to the appropriate configuration.

10.4.27 OPEN CHANNEL

10.4.27.1 Void

Clause kept for editorial reasons.

10.4.26.2 OPEN CHANNEL (Related to GPRS)

FFS

10.4.26.3 OPEN CHANNEL (Default Bearer)

FFS

10.4.26.4 OPEN CHANNEL (Local Bearer)

FFS

10.4.26.5 OPEN CHANNEL (GPRS, Support of Text Attribute)

FFS

10.4.27.6 OPEN CHANNEL (Related to E-UTRAN)

For test sequences 6.1 to 6.8 the test descriptions from TS 31.124 [2], clause 27.22.4.27.6 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.27.7 OPEN CHANNEL (UICC Access to IMS)

For test sequence 7.1 the test descriptions from TS 31.124 [2], clause 27.22.4.27.7 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2 and an ISIM as defined in clause 4.4.3.3 plus the additional parameters provided for sequence 7.1 in TS 31.124 [2], clause 27.22.4.27.7.4.1.

10.4.27.8 OPEN CHANNEL (related to NG-RAN)

For test sequences 8.1 to 8.6 the test descriptions from TS 31.124 [2], clause 27.22.4.27.8 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the additional parameters provided in TS 31.124 [2], clause 27.22.4.27.8.4.1.

10.4.27.9 OPEN CHANNEL (related to Satellite NG-RAN)

For test sequences 9.1 to 9.6 the test descriptions from TS 31.124 [2], clause 27.22.4.27.9 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the additional parameters provided in TS 31.124 [2], clause 27.22.4.27.9.4.1.

10.4.28 CLOSE CHANNEL

10.4.28.1 CLOSE CHANNEL (Normal)

FFS

10.4.28.2 CLOSE CHANNEL (support of Text Attribute)

FFS

10.4.28.3 CLOSE CHANNEL (E-UTRAN/EPC)

For test sequences 3.1 to 3.3 the test descriptions from TS 31.124 [2], clause 27.22.4.28.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2 plus the additional parameters provided in TS 31.124 [2], clause 27.22.4.28.3.4.1.

10.4.28.4 CLOSE CHANNEL (NG-RAN)

For test sequences 4.1 and 4.2 the test descriptions from TS 31.124 [2], clause 27.22.4.28.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the additional parameters provided in TS 31.124 [2], clause 27.22.4.28.4.4.1.

10.4.29 RECEIVE DATA

10.4.29.1 RECEIVE DATA (Normal)

For test sequences 1.2 to 1.5 and 1.7 the test descriptions from TS 31.124 [2], clause 27.22.4.29.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- For test sequences 1.2 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2.
- For test sequences 1.3 to 1.5 and 1.7 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2.
- Additional parameters provided in TS 31.124 [2], clause 27.22.4.29.1.4.1 apply to the appropriate configuration.

Test sequences 1.1 and 1.6 are not applicable to MEs operating a nrUICC.

10.4.29.2 RECEIVE DATA (Support of Text Attribute)

FFS

10.4.30 SEND DATA

10.4.30.1 SEND DATA (Normal)

FFS

10.4.30.2 SEND DATA (Support of Text Attribute)

FFS

10.4.30.3 SEND DATA(E-UTRAN)

For test sequences 3.1 and 3.2 the test descriptions from TS 31.124 [2], clause 27.22.4.30.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.4.30.4 SEND DATA(NG-RAN)

For test sequences 4.1 to 4.3 the test descriptions from TS 31.124 [2], clause 27.22.4.30.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply

- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the additional parameters provided in TS 31.124 [2], clause 27.22.4.30.4.4.1.

10.4.31 GET CHANNEL STATUS

For test sequences 1.4 to 1.6 the test descriptions from TS 31.124 [2], clause 27.22.4.31 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- For test sequences 1.4 and 1.5 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2.
- For test sequence 1.6 the nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2.

Test sequences 1.1 to 1.3 are not applicable to MEs operating a nrUICC.

10.5 Data Download to UICC

10.5.1 SMS-PP Data Download

FFS

10.5.2 Cell Broadcast Data Download

FFS

10.5.3 SMS-PP Data Download over IMS

For test sequence 3.1 the test descriptions from TS 31.124 [2], clause 27.22.5.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2 and an ISIM as defined in clause 4.4.3.3.

Test sequence 3.2 is not applicable to MEs operating a nrUICC.

10.5.4 SMS-PP Data Download over SGs in E-UTRAN

For test sequence 4.1 the test descriptions from TS 31.124 [2], clause 27.22.5.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.6 CALL CONTROL BY USIM

10.6.1 Procedure for Mobile Originated calls

FFS

10.6.2 Procedure for Supplementary (SS) Services

FFS

10.6.3 Interaction with Fixed Dialling Number (FDN)

FFS

10.6.4 Support of Barred Dialling Number (BDN) service

FFS

10.6.5 Barred Dialling Number (BDN) service handling for terminals not supporting BDN

FFS

10.7 EVENT DOWNLOAD

10.7.1 MT Call Event

FFS

10.7.2 Call Connected Event

FFS

10.7.3 Call Disconnected Event

FFS

10.7.4 Location Status Event

10.7.4.1 Location Status Event (Normal)

For test sequences 1.2 and 1.3 the test descriptions from TS 31.124 [2], clause 27.22.7.4 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

Test sequence 1.1 is not applicable to MEs operating a nrUICC.

10.7.5 User Activity Event

10.7.5.1 User Activity Event (Normal)

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.7.5.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.7.6 Idle Screen Available Event

FFS

10.7.7 Card Reader Status Event

10.7.7.1 Card Reader Status (Normal)

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.7.7.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.7.7.2 Card Reader Status (Detachable card reader)

For test sequence 2.1 the test descriptions from TS 31.124 [2], clause 27.22.7.7.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.7.8 Language Selection Event

10.7.8.1 Language Selection Event (Normal)

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.7.8.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.7.9 Browser Termination Event

FFS

10.7.10 Data Available Event

10.7.10.1 Data Available Event (Normal)

For test sequences 1.2 to 1.5 the test descriptions from TS 31.124 [2], clause 27.22.7.10.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2 plus the additional parameters provided for sequence 1.2 to 1.5 in TS 31.124 [2], clause 27.22.7.10.4.1.

Test sequence 1.1 is not applicable to MEs operating a nrUICC.

10.7.11 Channel Status event

For test sequence 1.2 the test descriptions from TS 31.124 [2], clause 27.22.7.11 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

Test sequence 1.1 is not applicable to MEs operating a nrUICC.

10.7.12 Access Technology Change event

For test sequence 1.4 the test descriptions from TS 31.124 [2], clause 27.22.7.12 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2 plus the additional parameters provided for sequence 1.4 in TS 31.124 [2], clause 27.22.7.12.4.1.

Test sequences 1.1 to 1.3 are not applicable to MEs operating a nrUICC.

10.7.13 Display parameter changed event

FFS

10.7.14 Local Connection event

FFS

10.7.15 Network search mode change event

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.7.15 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.7.16 Browsing status event

FFS

10.7.17 Network Rejection event

For test sequences 1.1 to 1.4 the test descriptions from TS 31.124 [2], clause 27.22.7.17 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2 or an nrUICC as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the additional parameters provided in TS 31.124 [2], clause 27.22.7.17.4.1.

10.7.18 CSG Cell Selection event

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.7.18 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2 plus the additional parameters provided in TS 31.124 [2], clause 27.22.7.18.4.1.

10.7.19 IMS registration event

The IMS registration event is tested in 10.4.27.7.1 and 10.7.20

10.7.20 Incoming IMS data event

10.7.20.1 Incoming IMS data (Normal)

For test sequences 1.1 and 1.2 the test descriptions from TS 31.124 [2], clause 27.22.7.20 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2 plus the additional parameters provided in TS 31.124 [2], clause 27.22.7.20.1.4.1.

10.7.21 Data Connection Status Change event

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.7.21 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2 plus the additional parameters provided in TS 31.124 [2], clause 27.22.7.21.1.4.1.

10.7.22 CAG Cell Selection event

10.7.22.1 CAG Cell Selection (Normal)

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.7.22 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.4 plus the additional parameters provided in TS 31.124 [2], clause 27.22.7.22.1.4.1.

10.8 MO SHORT MESSAGE CONTROL BY USIM

For test sequences 1.10 to 1.17 the test descriptions from TS 31.124 [2], clause 27.22.8 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2 plus the additional parameters provided for sequences 1.10 to 1.17 in TS 31.124 [2], clause 27.22.8.4.1.

Test sequences 1.1 to 1.8 are not applicable to MEs operating a nrUICC. Sequence 1.9 is voided in TS 31.124 [2], the numbering is kept identical for better readability.

10.9 Handling of command number

For test sequence 1.1 the test descriptions from TS 31.124 [2], clause 27.22.9 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2.

10.10 CALL CONTROL on EPS PDN Connection

For test sequence 1.1 to 1.7 the test descriptions from TS 31.124 [2], clause 27.22.10 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.3 of the present document, hosting a USIM as defined in clause 4.4.3.2 plus the additional parameters provided for sequences 1.1 to 1.7 in TS 31.124 [2], clause 27.22.10.1.4.1.

10.11 Call Control on PDP Context Activation

10.11.1 Procedure for Mobile Originated calls

FFS

10.12 Change eCall mode

For test sequences 1.1 to 1.3 the test descriptions from TS 31.124 [2], clause 27.22.10.12 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with default values for USIM Application Toolkit testing as defined in clause 4.4.2 of the present document, hosting a USIM as defined in clause 4.4.2.2 plus the additional parameters provided for the appropriate sequences 1.1 to 1.3 in TS 31.124 [2], clause 27.22.12.1.4.

Test sequences 1.4 and 1.5 are not applicable to MEs operating a nrUICC.

10.13 CALL CONTROL on PDU Session Establishment for NG-RAN

10.13.1 Procedure for Mobile Originated calls

For test sequences 1.1 to 1.7 the test descriptions from TS 31.124 [2], clause 27.22.10.13.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the additional parameters provided for the appropriate sequences 1.1 to 1.7 in TS 31.124 [2], clause 27.22.13.1.4.

10.14 ENVELOPE SMS-PP Data Download on NAS messages

10.14.1 Routing Indicator Data update via DL NAS TRANSPORT messages

For test sequences 1.1 to 1.4 the test descriptions from TS 31.124 [2], clause 27.22.14.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the additional parameters provided for the appropriate sequences 1.1 to 1.4 in TS 31.124 [2], clause 27.22.14.1.4.

10.14.2 Steering of Roaming via DL NAS TRANSPORT message

For test sequences 2.1, 2.3 and 2.4 the test descriptions from TS 31.124 [2], clause 27.22.14.2 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the additional parameters provided for the appropriate sequences 2.1, 2.3 and 2.4 in TS 31.124 [2], clause 27.22.14.2.4.

Test sequence 2.2 is voided in TS 31.124 [2], the numbering is kept identical for better readability.

10.14.3 Steering of Roaming via REGISTRATION ACCEPT message

For test sequences 3.1 and 3.2 the test descriptions from TS 31.124 [2], clause 27.22.14.3 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the additional parameters provided for the appropriate sequences 3.1 and 3.2 in TS 31.124 [2], clause 27.22.14.3.4.1.

Test sequence 3.2 is voided in TS 31.124 [2], the numbering is kept identical for better readability.

10.15 Geographical location discovery

For test sequence 1.1 the test description from TS 31.124 [2], clause 27.22.15.1 apply with the following exceptions:

- The General Requirements as defined in clause 4.2.1 apply
- The nrUICC is configured with values for USIM Application Toolkit testing as defined in clause 4.4.4 of the present document, hosting a USIM as defined in clause 4.4.4.2 plus the additional parameters provided for sequence 1.1 in TS 31.124 [2], clause 27.22.15.1.4.

Annex A (informative): Examples of Test-nrUICC

A.0 General information

The details provided for the Test-SIM (TestSIM) in TS 31.124 [2], Annex A apply to the Test-nrUICC used within the present test specification. Possible exceptions and additions are shown in the following clauses of Annex A.

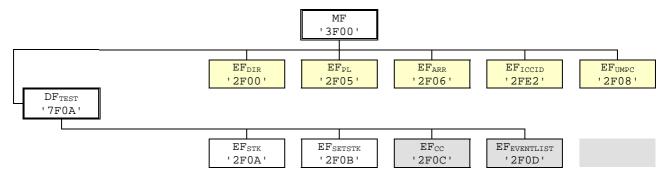
Test Tool or device manufacturer may provide the Test EF structure on the GSMA TS.48 [9] configuration depending on the test applet used for the testing.

A.1 Test EF structure - 1

DF_{TEST} shall be present at the Master File (MF) level to be used for testing purposes.

This EF structure is suggested to be used with the test environment defined in clause 4.1.3 of the present document in case USAT functionality is required to operate the test case.

The general structure of DF_{TEST} and associated EF is defined below:



The information in EF_{STK}, EF_{SETSTK}, EF_{CC}, EF_{EVENTLIST} shall be used. A Generic STK Applet that utilizes the test data configured by the tester in these new EFs to trigger the required commands from the UICC shall be used.

NOTE: File ID for DFTEST is implementation specific.

A.1.1 EF_{STK} (SIM Toolkit data)

Identifier: '2F0A'		St	Structure: linear fixed Mandato		andatory
	Record length: 255 bytes		Update activ	ity: low	
Access Co	nditions:				
R	EAD ALWAYS				
U	PDATE ALWAYS				
D	EACTIVATE ALWAYS				
A	CTIVATE ALWAYS				
Record	Description		Default Value	M/O	Length
1 to X	Test Data - Record 1	'FF FF	FF FF'	М	X bytes
				M	X bytes
39*X+1	Test Data - Record 40	'FF FF	FF FF'	M	X bytes
to 40*X					

Each individual record can hold the tester configured data, specific to the proactive command that needs to be issued by the ME referenced by EF_{SETSTK}. For details on the structure and coding of the proactive command refer to TS 31.111 [20].

NOTE: The record length is implementation specific. It is recommended to configure a record length allowing to entirely store each of the toolkit commands required for testing.

A.1.2 EFSETSTK (SET SIM Toolkit)

Identifier: '2F0B'		Structure: transparent		Mandatory		
	File si	ze: 1 byte		Update activity: low		
Access Co	nditions:					
R	EAD	ALWAYS				
U	PDATE	ALWAYS				
D	EACTIVATE	ALWAYS				
A	CTIVATE	ALWAYS				
Bytes	De	escription		Default Value	M/O	Length
1	Test Data		'00'		М	1 byte

Test Data is either set by the tester to the default value '0x00' or a specific record number of EF_{STK}. When read whilst set to a specific record number of EF_{STK}, it will imply to trigger the respective SIM toolkit command.

Example:

EF_{STK} is configured as '0x01':

- The test toolkit applet will issue the command stored at record 01 of EF_{STK}.
- Once the command is issued successfully, the applet will set EF_{SETSTK} to the default value.

EF_{STK} is configured as '0x80':

- the test toolkit applet will issue all available commands stored in records of EF_{STK} in sequence.

NOTE: This is helpful for tests where multiple proactive commands are required to be issued in sequence (from record 1 to n of EF_{STK}) after receiving the Terminal Response from the prior command.

A.1.3 EF_{CC} (CALL CONTROL)

Identifier: '2F0C'		Sti	Structure: transparent		Mandatory	
	Record length: 255 bytes		Update activity: low			
U	nditions: EAD ALWAYS PDATE ALWAYS EACTIVATE ALWAYS CTIVATE ALWAYS					
Bytes	Description		Default Value	M/O	Length	
1 to 255	Test Data	'0000		М	255 bytes	

Test Data is configured by the tester with the Call control response (as defined in TS 31.111 [20]) to process the Call Control Envelope commands received from terminal based on the Call Control service configured in UST.

For Example:

- 1. '00 00' implies allowed not modified.
- 2. '01 00' implies not allowed.
- 3. '02 LL...XX' implies allowed with modifications. (LL denotes the length of the TLV).

A.1.4 EF_{EVENTLIST} (EVENT LIST)

	Identifier: '2F0D'		Str	Structure: transparent		Mandatory	
Re	ecord length: X	(bytes (1 ≤ X ≤ 255	5)	Update activity: low			
Access Co	nditions:						
RI	EAD	ALWAYS					
UI	PDATE	ALWAYS					
DI	EACTIVATE	ALWAYS					
A	CTIVATE	ALWAYS					
Bytes	De	escription		Default Value	M/O	Length	
1 to 255	Test Data		'FF F	F'	М	255 bytes	

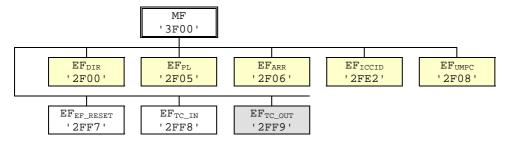
The Test data is of format <length><event1><event2>...<event n>... FF FF, where the length indicates the number of configured events as configured by the tester. Supported events are defined in TS 31.111 [20].

The data persists even after the card reset. Hence this data needs to be cleared by the tester by reverting the contents to default values (FF..FF).

A.2 Test EF structure - 2

 EF_{TC_IN} and EF_{TC_OUT} files are used during test case execution, and it shall be updated fresh for each test case. EF_{EF_RESET} file is used for saving EF content required to bring back the TS.48 profile to original profile content before initializing test specific data.

This EF structure is suggested to be used with the test environment defined in clause 4.1.4 of the present document.



A.2.1 EF_{TC_IN} (Test Case Input)

This file contains data required for a test applet to handle test case execution. Content and format of the data may be changed depending on the applet implementation.

Identifier: '2FF8'		Stı	Structure: transparent Op		Optional
	Record length: 255 bytes		Update activi	ty: low	
UI	nditions: EAD ALWAYS PDATE ALWAYS EACTIVATE ALWAYS CTIVATE ALWAYS				
Bytes	Description		Default Value	M/O	Length
1 to 255	Test Data	'FFFF	1	М	255 bytes

The EF may include data related to,

- Test step control
 - TT can update this data to direct test applet to move to next step in the test case.
- Toolkit command data

- This can be a sequence of TLVs related to proactive commands or event registrations or call control response data or any other action required for the test case.
- Different Tags can be defined for this purpose.

Example:

Bytes	Description	M/O	Length
1	Test step control	М	1 byte
2	Tag 1: Wait for new step tag	М	1 byte
3	Tag 1 length	М	1 byte
4 to 4+X	Tag 1 data	M	X bytes
5+X to 6+X	Tag 2: Proactive command tag	0	1 byte
7+X to 8+X	Tag 2 length	0	1 byte
9+X to 9+X+Y	Tag 2 data	0	Y bytes

A.2.2 EFTC_OUT (Test Case Output)

This file contains data received from the ME and it can be read by the TT to verify if meeting the acceptance criteria of a test case. Additionally, few leading bytes can be used for tracking EF_{TC_IN} and EF_{TC_OUT} current offsets if required by the applet. Content and format of the data may be changed depending on the applet implementation.

Identifier: '2FF9'		Str	ructure: transparent	Option	nal
Record length: 255 bytes			Update activi	ty: low	
Access Co	nditions:				
RI	EAD ALWAYS				
UI	PDATE ALWAYS				
DI	EACTIVATE ALWAYS				
A	CTIVATE ALWAYS				
Bytes	Description		Default Value	M/O	Length
1 to 255	Test Data	'FFFF	1	М	255 bytes

The EF may include data related to,

- Test EFs offset control,
 - TT can update initial offsets during test case initialization.
 - TT can track and update the test EF offsets as applet executes test steps.
- Toolkit command response data received from the ME,
 - This can be a sequence of TLVs related to proactive command responses (TERMINAL RESPONSE) or envelop commands (EVENTs).
 - Different Tags can be used for this purpose.

Example:

Bytes	Description	M/O	Length
1-2	Test EFs offset control bytes	М	2 bytes
3-4	Length	М	2 bytes
5	Tag 1: Proactive command 1 tag (for TERMINAL RESPONSE 1)	0	1 byte
6	Tag 1 length	0	1 byte
7 to 7+X	Tag 1 data	0	X bytes
8+X to 9+X	Tag 2: Proactive command 2 tag (for TERMINAL RESPONSE 2)	0	1 byte
10+X to 11+X	Tag 2 length	0	1 byte
12+X to 12+X+Y	Tag 2 data	0	Y bytes

A.2.3 EF_{EF} RESET (EF_RESET)

This file contains data required for updating EFs in the TS.48 configuration in order to restore the original content of it as part of the test case initialization. TT can request the applet through test control byte to read the content from this EF and update required EFs in the TS.48 configuration. Content and format of the data may be changed depending on the applet implementation. Content and format of the data may be changed depending on the applet implementation.

Ident	Identifier: '6F3B' Struc		cture: linear fixed			Optional	
Red	cord length: 128 byte	es	Update activity: low				
Fi	le size: 128n, (n=25)						
Access Cond	litions:						
REA	AD ALWAYS						
UPE	DATE ALWA	YS					
DEA	ACTIVATE ALWA	YS					
ACT	TIVATE ALWA	YS					
Byte	Description			Default Value	M/O	Length	
1 to X ⁽¹⁾	EF content read co	ntrol data		'FF FF FF FF'	М	X bytes	
X+1 to	Sequence of EF co	ontent data - 1	1	'FF FF FF FF'	M	128 bytes	
X+1+128							
						128 bytes	
					0	128 bytes	
128*24+1	Sequence of EF co	ontent data - 2	24	'FF FF FF FF'	0	128 bytes	
to							
128*25							
NOTE 1: X o	depends on applet in	nplementatio	n.				

The EF can include data related to,

- EF content read control data,
 - TT can update this record with an instruction on what records to be read to update the EFs in TS.48 profile.
- Sequence of EF content data,
 - This can be a sequence of TLVs related to EF content in the TS.48 profile.
 - Each sequence can include data related to more than one EF in the TS.48 profile.
 - Applet can choose a format to include number of 'FF' padding or unused bytes instead of updating with a sequence of 'FF' bytes to save the size of data in a record.

Example format:

Table A.2.3-1: Example format

Record number	Data format
1	<instruction all="" empty="" none="" read="" records="" to="">, <refresh flag=""></refresh></instruction>
	OR
	<read from="" record="" start="">, <read end="" record="">, <refresh flag=""></refresh></read></read>
NOTE:	<length of="" pattern=""> and <repeated pattern=""> is not required if <no of="" pattern="" repeated=""> is 0.</no></repeated></length>

Example data:

Table A.2.3-1: Example data

Record number	Data format
1	FD,1
	OR
	2 ,3, 0
2	'02 6F C9 01 04 01 02 03 04 00'
3	'02 6F CE 05 01 09 07 01 FF 02 6F D2 00 03 03 03 03 00 61 01 FF'

Annex B (normative): Details of terminal profile support

The details of the terminal profile provided in Table E.1 in TS 31.124 [2], Annex B identically apply to the present specification.

Annex C (informative): Suggested requirement lists for Test Applet functionality

A Test Applet should be installed on to a nrUICC for testing USAT functionalities or testing USIM functionalities (e.g. test environment in clause 4.1.5) if toolkit applet is required. Test Applet and TT should support general requirements in clause C.1 and the requirements in either the List-1 or List-2 in clause C.2 for test execution.

C.1 General requirements

Table C.1-1: General requirements

	General requirements
C.1.1	Test instructions or Test Input data for test case execution should be read from Test EFs.
C.1.2	Format of the test instructions input data should be defined as per the applet implementation.
C.1.3	Applet should be able to trigger proactive commands using test case instructions or input data Test EFs.
C.1.4	Applet should be able to handle Call Control events from ME and return treatments using test case instructions or input data Test EFs.
C.1.5	TT should be able to instruct the applet when to read individual test instructions for executing them sequentially and should maintain proper synchronization with the test steps executed on the TT (Network Simulator).
C.1.6	Applet should be capable of resuming test steps in a test case after a device reset or UICC RESET refresh if required (e.g. Device reset or the REFRESH is part of the test case).
C.1.7	Applet should be able to register or deregister for toolkit events in the ME - nrUICC interface. (see note 1 and 2)
C.1.8	Applet should be capable of processing concatenated envelopes (e.g., in the case of Long SoR) and to take the necessary actions according to the test requirements.
C.1.9	Applet should be able to read EF contents from a specific test file (e.g. EF _{EF_RESET}) to restore data in dedicated / standard EFs to its values in the original TS.48 configuration (e.g. prior to executing a test case). (see note 3)
C.1.10	Loading Test toolkit applets onto the nrUICC should be possible by using widely available tools.
C.1.11	Test applet should support events defined in ETSI TS 102 241 Rel-18 and TS 31.130,
NOTE 1	A SETUP EVENT LIST proactive command will be triggered by the nrUICC due to the event registration or deregistration.
NOTE 2	Applet may not receive the TERMINAL RESPONSE (TR) for the SETUP EVENT LIST proactive command. TT may use other methods to verify the TR content if required.
NOTE 3	Applet may trigger UICC RESET after restoring the EF data.

C.2 Test instruction or input data requirements

Test applet should be able to read test instruction or input data from EFs under DF_{TEST} or from EF_{TC_IN} as defined in requirements list 1 or list 2 below.

C.2.1 Test instruction or input data requirements list-1

Requirements in the following list are suggested to be supported within the test environment for seamless testing as defined in clause 4.1.4 of the present document.

Table C.2.1-1: Requirements for Seamless testing environment

	Requirements for Seamless testing environment				
C.2.1.1	TT or User should be able to configure the necessary Elementary Files (EFstk, EFsetstk, EFcc, EFeventlist) of				
	the activated USIM/ISIM application using test specific configuration data prior to execution of the test				
	procedure.				

C.2.2 Test instruction or input data requirements list-2

Requirements in the following list are suggested to be supported within the test environment for Test toolkit events-based testing as defined in clause 4.1.5 of the present document.

Table C.2.2-1: Requirements for Test events-based testing

Requirements for Test events-based testing					
C.2.2.1	Test instructions or Input data for test case execution should be read from the test EF (EF _{TC_IN}) configurable by				
	the TT prior to execution of the test procedure (during test case initialization)				

C.3 APDU content verification requirements

C.3.1 APDU content verification requirements list-1

Requirements in the following list are suggested to be supported within the test environment for seamless testing as defined in clause 4.1.4 of the present document.

Table C.3.1-1: Requirements for Seamless testing environment

Requirements for Seamless testing environment					
	TT should be able to receive and process the APDU TX/RX data exchanged between UICC and ME while maintaining proper synchronization with the test steps executed in the TT.				
	Verification of APDU TX/RX data for the respective EF should be possible by the TT during or after the test				
	case execution.				

C.3.2 APDU content verification requirements list-2

Requirements in the following list are suggested to be supported within the test environment for seamless testing as defined in clause 4.1.5 of the present document.

Table C.3.2-1: Requirements for Test events-based testing

	Requirements for Test events-based testing				
C.3.2.1	Applet should be capable of writing the contents of selected APDUs (e.g.: TERMINAL RESPONSE, ENVELOPE data, any selected APDUs etc), received from the ME - nrUICC interface to a test output file (e.g. EFTC_OUT).				
C.3.2.2	TT should read EF _{TC_OUT} file after the test case execution to verify the acceptance criteria.				
C.3.2.3	Format of the verification data in the test output file should be defined as per the applet implementation.				
C.3.2.4	Applet should be able to process the TERMINAL RESPONSE received from the ME upon triggering a proactive command from the applet.				
C.3.2.5	When required by a test case, applet should be able to register or deregister for receiving an ADPU to verify its content. (see note)				
NOTE:	Test events based APDU verification (clause 4.1.5) will require additional test applet support for the events EVENT_TEST_EXTERNAL_FILE_READ and EVENT_TEST_RX_APDU, defined in ETSI TS 102 241, Rel-18.				

Annex D (informative): Change history

Change history							
Date	Meeting	TDoc	CR	Rev	Cat	Subject/Comment	New
2024-08	CT6#119-bis	C6-240459				Agreed draft version after CT6#119bis	0.1.0
2024-11	CT6#120-bis	C6-240659				Version with corrections suggested in C6#119-bis and addition of TCs newly introduced in TS 31.124	1.0.0
2024-11	CT6#120-bis	C6-240686				Correction of the incorrect numbering in the former version	0.3.0
2024-11	CT6#120-bis	C6-240706				Addition of a pCRs agreed in C6#120-bis and addition of 'Suggested requirement lists for Test Applet functionality' to Annex C	0.40.0
2024-11	CT6#120-bis	C6-240714				Correction of incorrect numbering and typos from documents attached to C6-240706	0.5.0
2024-12	CT#106	CP-243168				TS Presented for information and approval	1.0.0
2024-12	CT#106					Approved in CT#106	17.0.0
2025-06	CT#108	CP-251023	0002	-	D	Change reference from ETSI TS 102 223 to 3GPP TS 31.111	18.0.0
2025-10	-	-	-	-	-	Update to Rel-19 version (MCC)	19.0.0

History

Document history					
V19.0.0	October 2025	Publication			