

ETSI TS 131 121 V12.4.0 (2016-01)



**Universal Mobile Telecommunications System (UMTS);
LTE;
UICC-terminal interface;
Universal Subscriber Identity Module (USIM)
application test specification
(3GPP TS 31.121 version 12.4.0 Release 12)**



Reference

RTS/TSGC-0631121vc40

Keywords

LTE,UMTS

ETSI

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

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

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

Important notice

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

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

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at
<http://portal.etsi.org/tb/status/status.asp>

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

Copyright Notification

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

The content of the PDF version shall not be modified without the written authorization of ETSI.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2016.
All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPP™ and **LTE™** are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.
GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Intellectual Property Rights

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

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

Foreword

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

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

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

Modal verbs terminology

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

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

Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	4
Introduction	4
1 Scope	5
2 References	5
3 Definitions, symbols, abbreviations and coding.....	6
4 Requirements.....	7
Annex A (informative): Change history	8
History	11

Foreword

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

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

Version x.y.z

where:

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

Introduction

The present document defines the application test specification.

The aim of the present document is to ensure interoperability between an UICC and a terminal independently of the respective manufacturer, card issuer or operator. 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 reflected over the interface.

Application specific details for applications residing on an UICC are specified in the respective application specific documents. The logical and physical Characteristics of the UICC Terminal interface is specified in document ETSI TS 102 221 [5]. The Universal Subscriber Identity Module (USIM)-application for 3G telecommunication networks is specified in document TS 31.102 [4].

1 Scope

The present document provides the UICC –Terminal Interface Conformance Test Specification between a 2G, 3G or 3G E-UTRAN terminal and the USIM (Universal Subscriber Identity Module) as an application on the UICC and the Terminal for a 2G, 3G or 3G E-UTRAN network operation:

- the default setting of the USIM;
- the applicability of each test case;
- the test configurations;
- the conformance requirement and reference to the core specifications;
- the test purposes; and
- a brief description of the test procedure and the specific acceptance criteria.

For the avoidance of doubt, references to clauses of ETSI TS 102 221 [5] include all the subclauses of that clause, unless specifically mentioned.

ETSI TS 102 221 [5] contains material that is outside of the scope of 3GPP requirements. 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 for features defined in ETSI TS 102 221 [5] which are out of scope of 3GPP.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version in same release as the implementation release of the terminal under test applies.

[1] - [3] Void

[4] 3GPP TS 31.102: "Characteristics of the USIM application".

[5] If the device under test is a

- R99 ME: ETSI TS 102 221 v3.18.0: "UICC-Terminal interface; Physical and logical characteristics",
- Rel-4 ME: ETSI TS 102 221 v4.16.0: "UICC-Terminal interface; Physical and logical characteristics",
- Rel-5 ME: ETSI TS 102 221 v5.10.0: "UICC-Terminal interface; Physical and logical characteristics",
- Rel-6 ME: ETSI TS 102 221 v6.15.0: "UICC-Terminal interface; Physical and logical characteristics",
- Rel-7 ME: ETSI TS 102 221 v7.17.0: "UICC-Terminal interface; Physical and logical characteristics",
- Rel-8 ME: ETSI TS 102 221 v8.5.0: "UICC-Terminal interface; Physical and logical characteristics",
- Rel-9 ME: ETSI TS 102 221 v9.2.0: "UICC-Terminal interface; Physical and logical characteristics",
- Rel-10 ME: ETSI TS 102 221 v10.0.0: "UICC-Terminal interface; Physical and logical characteristics",

- Rel-11 ME: ETSI TS 102 221 v11.1.0: "UICC-Terminal interface; Physical and logical characteristics",
- Rel-12 ME: ETSI TS 102 221 v12.0.0: "UICC-Terminal interface; Physical and logical characteristics".

[6] - [35] Void

[36] 3GPP TS 31.121, Rel-13 "UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification"

3 Definitions, symbols, abbreviations and coding

Void

4 Requirements

The requirements of the present document are provided in 3GPP TS 31.121 [36].

Annex A (informative): Change history

TSG #	TSG TD#	WG TD#	CR	Rev	Cat	Subject/Comment	Old	New
CT-28	CP-050139	C6-050394	068	-	B	Introduction of BCD number/ SSC content extension tests	-	6.0.0
CT-28	CP-050139	C6-050396	072	-	B	Introduction of ACL tests	-	6.0.0
CT-28	CP-050139	C6-050436	073	-	B	Introduction of SDN tests	-	6.0.0
CT-28	CP-050139	C6-050452	074	-	B	Introduction of phonebook selection/ local phonebook handling test	-	6.0.0
CT-29	CP-050325	C6-050658	080	-	A	Incorrect PUK2 value used in TC 6.1.6	6.0.0	6.1.0
CT-29	CP-050325	C6-050711	088	-	A	Incorrect value used for EF SMS in TC 8.2.2	6.0.0	6.1.0
CT-29	CP-050331	C6-050654	076	-	A	Incorrect MCC value used in TC 7.4.1	6.0.0	6.1.0
CT-29	CP-050336	C6-050706	083	-	F	Clarification of BCD number/ SSC content extension tests	6.0.0	6.1.0
CT-29	CP-050336	C6-050700	081	-	F	Numbering and minor corrections	6.0.0	6.1.0
CT-30	CP-050494	C6-050853	090	-	F	CR to create combined R99 – Rel-6 version	6.1.0	6.2.0
CT-31	CP-060020	C6-060178	095	-	F	Essential correction of TC 7.2.1	6.2.0	6.3.0
CT-31	-	-	-	-	-	Update of Change History by TB Officer	6.3.0	6.3.1
CT-32	CP-060285	C6-060224	0096	-	F	Essential correction of acceptance criteria in 6.1.3.5 and 6.1.4.5	6.3.1	6.4.0
CT-32	CP-060286	C6-060231	0097	-	F	Essential corrections on ACL TC 9.1.1	6.3.1	6.4.0
CT-33	CP-060507	C6-060517	0098	1	F	Essential corrections on Applicability table	6.4.0	6.5.0
CT-34	CP-060543	C6-060792	0099	1	F	Essential corrections to 8.1.2	6.5.0	6.6.0
CT-34	CP-060543	C6-060793	0100	1	F	Essential correction of EF PLMNwACT coding	6.5.0	6.6.0
CT-35	CP-070064	C6-070098	0101	1	F	Essential correction of UICC presence detection test	6.6.0	6.7.0
CT-36	-	-	-	-	-	Update to Rel-7 version (MCC)	6.7.0	7.0.0
CT-37	CP-070617	C6-070368	0103	-	F	Essential correction of Location Area Information parameter in test 7.3	7.0.0	7.1.0
CT-37	CP-070617	C6-070369	0104	-	F	Essential correction of the applicability of tests 6.4.2, 6.4.3, 6.4.4	7.0.0	7.1.0
CT-38	CP-070846	C6-070526	0105	-	F	Essential correction on test case 7.1.2	7.1.0	7.2.0
CT-38	CP-070846	C6-070567	0106	1	C	Introduction of Rel-7 test case applicability	7.1.0	7.2.0
CT-38	CP-070846	C6-070568	0107	1	F	Essential correction of Location Updating Accept/ Attach Accept parameters in 7.1.1	7.1.0	7.2.0
CT-38	CP-070846	C6-070569	0108	1	F	Essential correction of network parameters and acceptance criteria in 7.4.1	7.1.0	7.2.0
CT-38	CP-070846	C6-070581	0109	1	F	Correction of reference to 3GPP TS 23.140	7.1.0	7.2.0
CT-39	CP-080171	C6-080017	0110	-	F	Sequence indication error in 7.1.2.4.2 fixed after wrong implementation of CR 0105	7.2.0	7.3.0
CT-39	CP-080171	C6-080065	0111	1	F	Essential correction to Access Class Barred IE coding in tables 5-1a and 5-1b	7.2.0	7.3.0
CT-40	CP-080387	C6-080103	0112	-	F	Essential correction to network simulator configuration in test 5.2.1	7.3.0	7.4.0
CT-40	CP-080387	C6-080104	0113	-	F	Essential correction to test 7.3.1	7.3.0	7.4.0
CT-40	CP-080387	C6-080167	0114	1	F	Essential correction of the test case applicability for terminals not supporting speech calls	7.3.0	7.4.0
CT-41	CP-080587	C6-080240	0115	-	F	Essential correction of TC 8.4 applicability	7.4.0	7.5.0
CT-42	-----	-----	-	-	-	Upgrade to copyright, keywords and logo for LTE	7.5.0	8.0.0
CT-43	CP-090458	C6-090177	0116	1	B	Definition of LTE™ tests	8.0.0	8.1.0
CT-43	CP-090458	C6-090132	0118	-	B	Definition of clause 7.2, 7.3 and 7.4 LTE™ tests	8.0.0	8.1.0
CT-43	CP-090458	C6-090179	0119	1	F	Clarification of class 2 SMS test	8.0.0	8.1.0
CT-43	CP-090458	C6-090187	0120	2	F	Clarification of PIN MMI string test	8.0.0	8.1.0
CT-45	CP-090717	C6-090234	0121	1	B	Definition of CSG related test cases for E-UTRA	8.1.0	8.2.0
CT-45	CP-090717	C6-090320	0122	1	B	Definition of EPS NAS Security Context cases for E-UTRA/EPC	8.1.0	8.2.0
CT-45	CP-090717	C6-090208	0123	-	F	Essential correction of test 6.1.12	8.1.0	8.2.0
CT-45	CP-090717	C6-090322	0124	1	F	Correction of tests 7.4.2 and 7.4.4	8.1.0	8.2.0
CT-45	CP-090717	C6-090321	0126	1	B	Definition of CSG related test cases for E-UTRA, Part 2	8.1.0	8.2.0
CT-45	CP-090717	C6-090236	0127	-	F	Essential corrections on LTE related test cases	8.1.0	8.2.0
CT-46	CP-090997	C6-090405	0130	-	F	Correction of EF UST in clause 4.4.1	8.2.0	8.3.0
CT-46	CP-090998	C6-090463	0133	1	F	Editorial correction of the naming of RRCConnectionRequest	8.2.0	8.3.0
CT-46	CP-090998	C6-090484	0131	3	F	Definition of the UICC presence detection test when connected to E-UTRAN/EPC	8.2.0	8.3.0
CT-46	CP-090998	C6-090485	0132	3	F	Definition of ACL related test cases for E-UTRA	8.2.0	8.3.0

CT-46	CP-090998	C6-090499	0135		F	Update of CGS list tests	8.2.0	8.3.0
CT-46	-	-	-	-	-	Upgrade of the specification to Rel-9	8.3.0	9.0.0
CT-47	CP-100195	C6-100071	0139	1	D	Editorial modifications about missing section numbers	9.0.0	9.1.0
CT-47	CP-100193	C6-100029	0137	-	F	Introduction of Rel-9 applicability and applicability table corrections	9.0.0	9.1.0
CT-48	CP-100394	C6-100211	0141		F	Essential correction of Unblock Universal PIN value description in 4.1.1.21	9.1.0	9.2.0
CT-48	CP-100394	C6-100256	0140	1	F	Essential correction to applicability table	9.1.0	9.2.0
CT-48	CP-100394	C6-100278	0143	1	F	Essential corrections on the initial conditions of E-UTRAN related test cases	9.1.0	9.2.0
CT-48	CP-100394	C6-100279	0144		F	Correction of inconsistent terminology for E-UTRAN-related elements	9.1.0	9.2.0
CT-49	CP-100589	C6-100413	0147	1	F	Addition of CSG Type and Home NodeB Name display test	9.2.0	9.3.0
CT-49	CP-100590	C6-100376	0146	1	F	Essential corrections on E-UTRAN / EPC related test cases	9.2.0	9.3.0
CT-49	CP-100592	C6-100392	0145	1	F	Update of references	9.2.0	9.3.0
CT-50	CP-100831	C6-100597	0150	1	F	Correction of incorrect Expected IMSI value in TC 5.1.8 acceptance criteria	9.3.0	9.4.0
CT-50	CP-100831	C6-100604	0151	1	F	Addition of LTE-related services to EF_UST in LTE test cases	9.3.0	9.4.0
CT-50	CP-100830	C6-100620	0148	1	B	Definition of E-UTRAN/EPC ISIM-UICC for ISIM related testing	9.3.0	9.4.0
CT-51	CP-110264	C6-110196	0153	3	C	Split of test 8.2.1 for independent verification of correct 'Class 2 SM storage on the USIM' and 'SM memory capacity exceeded handling' support	9.4.0	9.5.0
CT-51	CP-110232	C6-110115	0154	7	B	Introduction of ISIM related SMS tests	9.4.0	9.5.0
CT-51	CP-110232	C6-110116	0155		B	Introduction of ISIM and USIM related SMS reading test	9.4.0	9.5.0
CT-51	CP-110264	C6-110197	0156	1	F	Essential correction on TC 5.1.10	9.4.0	9.5.0
SP-51						Automatic upgrade from previous version 9.5.0	9.5.0	10.0.0
CT-52	CP-110502	C6-110268	0158	1	F	Removal of tel URI in EF_IMPU of the default configuration of a E-UTRAN/EPC ISIM UICC	10.0.0	10.1.0
CT-52	CP-110502	C6-110256	0159		F	Essential correction of test 11.1 regarding EF_EPSNSC updates	10.0.0	10.1.0
CT-53	CP-110718	C6-110372	0161	2	F	Essential correction of tests 11.2 and 11.3	10.1.0	10.2.0
CT-53	CP-110718	C6-110378	0162	1	F	Essential correction of test 5.2.2	10.1.0	10.2.0
						Correction of formatting of table 5-2	10.2.0	10.2.1
CT-54	CP-110903	C6-110543	0163	1	F	Essential correction of the phonebook and MMS tests applicability	10.2.1	10.3.0
CT-54	CP-110903	C6-110583	0164	1	F	Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC)	10.2.1	10.3.0
CT-55	CP-120150	C6-120065	0165	1	F	Essential correction of 5.2.2	10.3.0	10.4.0
CT-56	CP-120390	C6-120214	0166		F	Correction of test 6.1.16	10.4.0	10.5.0
CT-56	CP-120390	C6-120264	0168	1	F	Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities	10.4.0	10.5.0
CT-56	CP-120391	C6-120228	0167		F	Changes in test sequences for ACL in E-UTRAN	10.4.0	10.5.0
SP-57						Automatic upgrade to Rel-11	10.0.0	11.0.0
CT-58	CP-120874	C6-120594	0172	1	F	Essential correction on TC 11.1	11.0.0	11.1.0
CT-58	CP-120874	C6-120595	0173	1	F	Essential correction on TC 11.2	11.0.0	11.1.0
CT-58	CP-120874	C6-120596	0171	1	F	Essential correction on the applicability for TC 5.2.2	11.0.0	11.1.0
CT-58	CP-120874	C6-120611	0170	3	F	Change of ACL test sequence	11.0.0	11.1.0
CT-60	CP-130368	C6-130204	0174	7	B	Introduction of Operator CSG lists and CSG list display control related TCs for E-UTRA and UTRA (Rel-9)	11.1.0	11.2.0
CT-60	CP-130368	C6-130203	0176	2	B	Introduction of Allowed CSG Lists related TCs for UTRA (Rel-8)	11.1.0	11.2.0
CT-62	CP-130798	C6-130520	0179		F	Removal of the unused applicability condition C030	11.2.0	11.3.0
CT-62	CP-130789	C6-130587	0180	3	B	Introduction of EPS NAS Security Context Storage test case	11.2.0	11.3.0
CT-62	CP-130798	C6-130570	0181	1	F	Essential correction for Applicability table related to new CSG tests	11.2.0	11.3.0
CT-63	CP-140170	C6-140014	0182		D	Clarification of call types to be used inside test case 8.4.	11.3.0	11.4.0
CT-63	CP-140170	C6-140067	0183	1	F	Corrections to test case 10.1.2, 10.1.4 and 10.1.5	11.3.0	11.4.0
CT-63	CP-140170	C6-140100	0186	1	F	Corrections to the applicabilities of CSG test cases	11.3.0	11.4.0
CT-63	CP-140170	C6-140068	0184	1	F	Corrections to test case 10.1.8 and 10.2.2	11.3.0	11.4.0
CT-63	CP-140170	C6-140099	0185	1	F	Corrections to test case 10.2.1, 10.2.2 and 10.2.3	11.3.0	11.4.0
CT-65	CP-140706	C6-140424	0187		F	Correction to the text description of default value in EFOPLMNwAcT	11.4.0	11.5.0
CT-65	CP-140706	C6-140431	0190		F	Corrections to the test sequence of TC 6.4.3 and 6.4.4	11.4.0	11.5.0
SP-65						Automatic upgrade to Rel-11	11.5.0	12.0.0
CT-66	CP-140962	C6-140634	0192		F	Default GUTI correction	12.0.0	12.1.0

CT-66	CP-140962	C6-140704	0191	1	F	Removal of TC 9.1.5	12.0.0	12.1.0
CT-66	CP-140962	C6-140732	0188	2	F	Update of references to ETSI TS 102 221 and addition of Rel-12 applicability	12.0.0	12.1.0
CT-67	CP-150161	C6-150030	0194		F	Corrections to test case 7.1.1	12.1.0	12.2.0
CT-67	CP-150160	C6-150032	0196		F	Corrections to test case 7.1.6 and 10.2.3	12.1.0	12.2.0
CT-67	CP-150161	C6-150073	0197	1	F	Corrections to test case 8.2.4	12.1.0	12.2.0
CT-67	CP-150161	C6-150074	0195	1	F	Corrections to test case 7.1.3, 7.2.2, 7.2.3, 7.3.1, 7.3.2, 7.4.1 and 7.4.2	12.1.0	12.2.0
CT-67	CP-150161	C6-150076	0198	2	F	Essential correction on EFEPSNSC (EPS NAS Security Context) defined for E-UTRAN/EPC UICC	12.1.0	12.2.0
CT-68	CP-150161	C6-150030	0194		F	Corrections to test case 7.1.1	12.2.0	12.3.0
CT-70	CP-150828	C6-150609	0201	1	F	Rel-12 content replacement by reference to TS 31.121, Rel-13	12.3.0	12.4.0

History

Document history		
V12.0.0	October 2014	Publication
V12.1.0	January 2015	Publication
V12.2.0	April 2015	Publication
V12.3.0	July 2015	Publication
V12.4.0	January 2016	Publication