

ETSI TS 131 124 V6.10.0 (2007-10)

Technical Specification

**Universal Mobile Telecommunications System (UMTS);
Mobile Equipment (ME) conformance test specification;
Universal Subscriber Interface Module Application
Toolkit (USAT) conformance test specification
(3GPP TS 31.124 version 6.10.0 Release 6)**



Reference

RTS/TSGC-0631124v6a0

Keywords

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

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the 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:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2007.
All rights reserved.

DECTTM, **PLUGTESTS**TM and **UMTS**TM are Trade Marks of ETSI registered for the benefit of its Members.
TIPHONTM and the **TIPHON logo** are Trade Marks currently being registered by ETSI for the benefit of its Members.
3GPPTM is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

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 (<http://webapp.etsi.org/IPR/home.asp>).

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>.

Contents

Intellectual Property Rights2

Foreword.....2

Foreword.....4

1 Scope5

2 References6

3 Definitions and abbreviations.....6

4 Test equipment6

Annex A (informative): Change history7

History10

Foreword

This Technical Specification 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.

1 Scope

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

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

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

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

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

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

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

Within the context of this document, the term "terminal" used in ETSI TS 102 223 [16] refers to the Mobile Equipment (ME).

Within the context of this document, the term "UICC" used in ETSI TS 102 223 [16] refers to the USIM card.

Within the context of this document, the term "NAA" used in ETSI TS 102 223 [16] refers to the USIM application.

2 References

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

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

[1] - [15] Void.

[16] ETSI TS 102 223: "Smart cards; Card Application Toolkit (CAT)"

[17a] – [18] Void.

[19] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[20] ETSI ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[21] – [28] Void.

[29] 3GPP TS 31.124, Rel-7: "Mobile Equipment (ME) conformance test specification; Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification".

3 Definitions and abbreviations

Void.

4 Test equipment

The requirements of the present document are provided in TS 31.124 [29].

Annex A (informative): Change history

CP-doc	CR	REV	Meeting	SUBJECT	CAT	NEW_VERS
TP-050016	-	-	2.0.0	Approved TP-27, March 2005		6.0.0
CP-050144	0001	-	CT-28	Correction of coding in MT Call Event	F	6.1.0
CP-050144	0002	-	CT-28	Correction of applicability table	F	6.1.0
CP-050144	0003	-	CT-28	Essential Corrections	F	6.1.0
CP-050144	0004	-	CT-28	Correction of coding in MT Call Event	F	6.1.0
CP-050144	0005	-	CT-28	Removal of GET RESPONSE references	F	6.1.0
CP-050447	0006	-	CT-29	Rel-6: Correction of release dependent EF values	F	6.2.0
CP-050447	0007	-	CT-29	Correction of applicability and terminal profile support tables	F	6.2.0
CP-050447	0008	-	CT-29	Correction of EF_BDN coding	F	6.2.0
CP-050447	0009	-	CT-29	Incorrect Dialling Number string in clause 27.22.4.13.1 SEQ 1.9 for PCS 1900	F	6.2.0
CP-050447	0010	-	CT-29	Essential corrections in display icons Setup Menu and Select Item	f	6.2.0
CP-050447	0011	-	CT-29	Incorrect Ti Flag value for SET UP 1.4.1 in clause 27.22.4.16.1	F	6.2.0
CP-050447	0012	-	CT-29	Correction of TP-MR (TP Message Reference) of the SMS SUBMIT TPDU submitted to the USS (Network)	F	6.2.0
CP-050447	0013	-	CT-29	Corrections in the Logical description and BER encoding in clause 27.22.6.2 and 27.22.4.11	F	6.2.0
CP-050447	0014	-	CT-29	Incorrect DCS in SMS-CB data download tests	F	6.2.0
CP-050447	0015	-	CT-29	Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY USIM	F	6.2.0
CP-050447	0016	-	CT-29	Introduction of BDN tests for terminals not supporting BDN	B	6.2.0
CP-050447	0017	-	CT-29	Essential Corrections	F	6.2.0
CP-050447	0018	-	CT-29	Incorrect SMS-PP 1.4.1 TPDU in clause 27.22.4.22.1	F	6.2.0
CP-050447	0019	-	CT-29	Missing interactions in Bearer Independent Protocol test cases	F	6.2.0
CP-050447	0020	-	CT-29	Correction of Refresh tests	F	6.2.0
CP-050447	0022	-	CT-29	Applicability of TC 27.22.4.7.1 and TCs related to FDN and BDN	F	6.2.0
CP-050447	0023	-	CT-29	Essential correction to Terminal Profile table E.1	F	6.2.0
CP-050447	0024	-	CT-29	Correction of CB message identifier	F	6.2.0
CP-050447	0025	-	CT-29	Rel-6: Addition of new UCS2 Tests	B	6.2.0
CP-050447	0027	-	CT-29	Incorrect Coding of SMS-PP (Data download) Message in clause 27.22.4.7.1 and 27.22.5.1	F	6.2.0
-	-	-	-	2005-10: Editorial corrections due to the CRs approved at CP-29	-	6.2.1
CP-050495	0028	-	CT-30	Correction of Send SS (UCS2) tests	F	6.3.0
CP-050495	0029	-	CT-30	Essential Corrections in clause 27.22.4.11	F	6.3.0
CP-050495	0030	-	CT-30	Corrections to Select Item (icons support)	F	6.3.0
CP-050495	0031	-	CT-30	27.22.7.4.1 Location Status Event (normal)	F	6.3.0
CP-050495	0032	-	CT-30	Essential Corrections of Set Up Menu test	F	6.3.0
CP-050495	0033	-	CT-30	Correction of applicability table and related addition of missing test sequences	F	6.3.0
CP-050495	0034	-	CT-30	Correction in SMS-PP 1.4.1 TPDU of clause 27.22.4.22.1	F	6.3.0
CP-050495	0035	-	CT-30	Essential Corrections of SMS-PP download message in Refresh test case	F	6.3.0
CP-050495	0036	-	CT-30	Essential Correction in MO SHORT MESSAGE CONTROL BY USIM Deletion of sequence 1.9	F	6.3.0
CP-050495	0037	-	CT-30	Deletion of SEQ 1.3 in clause 27.22.4.13.1	F	6.3.0
CP-060013	0041	-	CT-31	Deletion of Send Data test sequence	F	6.4.0
CP-060013	0042	-	CT-31	Essential correction of Provide Local Information (IMEI) test	F	6.4.0
CP-060013	0044	-	CT-31	Essential Correction in SEQ 1.8 of clause 27.22.8	F	6.4.0
CP-060013	0045	-	CT-31	Essential correction on 27.22.7.3.1 Call Disconnected Event	F	6.4.0
CP-060013	0050	-	CT-31	Essential correction of Channel Data length in clause 27.22.4.30	F	6.4.0
CP-060014	0048	-	CT-31	Essential Corrections in clause 27.22.4.11	F	6.4.0
CP-060014	0052	-	CT-31	Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY SIM	F	6.4.0
CP-060014	0049	-	CT-31	Essential correction in SEQ 1.4 of clause 27.22.4.11.1 SEND SS (normal)	F	6.4.0
CP-060014	0047	-	CT-31	Essential corrections of Run AT Command tests	F	6.4.0
CP-060014	0053	-	CT-31	Essential corrections to SET UP CALL test sequences	F	6.4.0
CP-060015	0055	-	CT-31	Essential Correction in TERMINAL RESPONSE coding of clause 27.22.4.31	F	6.4.0
CP-060015	0056	-	CT-31	Essential corrections to Timer Expiration tests	F	6.4.0
CP-060015	0054	-	CT-31	BER-TLV suppressions	F	6.4.0
CP-060157	0059	-	CT-31	Add SMS PP Data Download RP-ERROR Test Case	B	6.4.0
CP-060022	0043	-	CT-31	Essential Correction in SEQ 1.7 of clause 27.22.4.13.1	F	6.4.0
CP-060022	0046	-	CT-31	Essential correction of Refresh test	F	6.4.0
CP-060022	0051	-	CT-31	Essential correction of Channel Data length in Result TLV of clause 27.22.4.30	F	6.4.0

CP-doc	CR	REV	Meeting	SUBJECT	CAT	NEW_VERS
CP-060022	0060	-	CT-31	CR 31.124 Rel-6: Insertion of missing REFRESH (IMSI changing procedure) test cases	F	6.4.0
CP-060022	0057	-	CT-31	Essential corrections of references	F	6.4.0
CP-060241	0061	-	CT-32	Proposal to the TS 31.124 Split by referencing the relevant USAT Test procedures to TS 102 384		6.5.0
CP-060241	0062	-	CT-32	Essential corrections on test cases 27.22.6.3 and 27.22.6.4 using record 2 in EF FDN		6.5.0
CP-060241	0063	-	CT-32	Essential corrections on TC 27.22.6.4 sequence 4.1		6.5.0
CP-060241	0064	-	CT-32	Essential corrections on SEND SHORT MESSAGE test cases		6.5.0
CP-060241	0065	-	CT-32	Essential correction of text attributes tests		6.5.0
CP-060241	0066	-	CT-32	Definition of appropriate QoS in BIP test cases related to GPRS for 3G		6.5.0
CP-060241	0071	-	CT-32	Essential correction of Refresh test in 27.22.7.4.2, seq. 2.4		6.5.0
CP-060241	0074	-	CT-32	Essential corrections of RUN AT Command tests		6.5.0
CP-060241	0067	-	CT-32	Essential correction of tables B.1 and E.1		6.5.0
CP-060242	0068	-	CT-32	Essential Correction in REGISTER 1.2B message coding of clause 27.22.4.11.1 SEND SS (normal)	F	6.5.0
CP-060242	0069	-	CT-32	Essential correction of 27.22.4.13.1 SET UP CALL, seq 1.4	F	6.5.0
CP-060242	0070	-	CT-32	Essential correction of second card reader test applicability	F	6.5.0
CP-060242	0072	-	CT-32	Correction of TON/NPI coding for Call Control Test case	F	6.5.0
CP-060242	0073	-	CT-32	Essential corrections on 27.22.4.11.1 sequence. 1.2	F	6.5.0
CP-060242	0075	-	CT-32	Essential correction of BIP tests	F	6.5.0
CP-060389	0082	1	CT-33	Wrong reference inside test requirement of TC 27.22.7.2.2	F	6.6.0
CP-060389	0087	1	CT-33	Essential corrections of applicability table	F	6.6.0
CP-060389	0088	1	CT-33	Essential correction of IMEISV coding for Provide Local Information	F	6.6.0
CP-060389	0089	1	CT-33	Essential corrections of text attribute tests for Send USSD and Close channel	F	6.6.0
CP-060389	0090	1	CT-33	Proposal to the TS 31.124 Split by referencing the relevant USAT Test procedures to TS 102 384	F	6.6.0
CP-060389	0091	1	CT-33	Correction to the UCS2 coding in Setup Call test	F	6.6.0
CP-060389	0092	1	CT-33	Essential correction of RUN AT Command for text attribute tests	F	6.6.0
CP-060389	0095	1	CT-33	Correction of RECEIVE DATA tests	F	6.6.0
CP-060389	0096	1	CT-33	Correction of terminology for USIM Service Table	F	6.6.0
CP-060389	0097	1	CT-33	Correction of 2nd alpha identifier usages in SET UP CALL tests	F	6.6.0
CP-060389	0098	1	CT-33	Correction of various typographical errors	F	6.6.0
CP-060389	0101	1	CT-33	Essential corrections to OPEN CHANNEL text attribute test sequences	F	6.6.0
CP-060389	0078	1	CT-33	Correction of "Precedence class" values in Bearer Independent Protocol test cases	F	6.6.0
CP-060389	0076	1	CT-33	Essential corrections on PROVIDE LOCAL INFORMATION test sequences	F	6.6.0
CP-060389	0080	2	CT-33	Essential corrections on test sequences using the TLV data object Location Information	F	6.6.0
CP-060389	0100	2	CT-33	Essential corrections to SET UP CALL (UCS2 Display) test sequences	F	6.6.0
CP-060389	0081	3	CT-33	Essential corrections to REFRESH(normal) test sequence	F	6.6.0
CP-060389	0102	1	CT-33	Essential corrections to SEND SS display tests concerning longForwardedToNumber	F	6.6.0
CP-060475	0086	1	CT-33	Essential corrections of MMI entries in table E.1	F	6.6.0
CP-060475	0077	2	CT-33	Corrections to SET UP CALL test case 27.22.4.13.1	F	6.6.0
CP-060475	0099	1	CT-33	Essential corrections to SEND SS concerning longForwardedToNumber	F	6.6.0
CP-060475	0094	2	CT-33	Corrections to MO SHORT MESSAGE CONTROL BY USIM tests	F	6.6.0
CP-060517	0084	1	CT-33	Essential corrections Set Up Call, seq. 1.9	F	6.6.0
CP-060540	0103	-	CT-34	Correction of APN Coding in Open Channel test case	F	6.7.0
CP-060540	0085	2	CT-34	Essential corrections of BIP entries in table E.1	F	6.7.0
CP-060540	0110	2	CT-34	Essential correction of Result TLV handling	F	6.7.0
CP-060540	0111	-	CT-34	Essential correction of expected sequence in OPEN CHANNEL test case	F	6.7.0
CP-060727	0105	-	CT-34	Some of the Applicability table content is missing when printed or in Print Layout mode	F	6.7.0
CP-060727	0106	1	CT-34	Correction to SET UP CALL	F	6.7.0
CP-060727	0107	-	CT-34	Correction to SEND SS	F	6.7.0
CP-060727	0058	1	CT-34	Addition of REFRESH USIM Application Reset	B	6.7.0
CP-060727	0108	-	CT-34	Essential corrections on SEND SS (UCS2 display) test cases	F	6.7.0
CP-060727	0109	-	CT-34	Essential corrections on REFRESH TC 27.22.4.7.1	F	6.7.0
CP-060727	0104	1	CT-34	Corrections in the interpretation of Katakana Character	F	6.7.0
CP-070063	0115	-	CT-35	Essential correction of 27.22.5.2	F	6.8.0
CP-070063	0113	1	CT-35	Essential correction of Terminal Profile Support table	F	6.8.0
CP-070063	0112	1	CT-35	Essential correction of 27.22.4.13.1 Expected Sequence 1.7	F	6.8.0
CP-070065	0116	-	CT-35	Essential correction of 27.22.4.7, seq. 1.7	F	6.8.0
CP-070065	0119	-	CT-35	Essential correction of TC 27.22.7.4.1	F	6.8.0
CP-070065	0120	-	CT-35	CR implementation error correction for 27.22.6.2 SEQ 2.2	F	6.8.0
CP-070065	0121	-	CT-35	CR implementation error correction for 27.22.4.11.1 SEQ 1.4A	F	6.8.0
CP-070065	0117	1	CT-35	Essential clarification of Network Simulator selection	F	6.8.0
CP-070065	0122	1	CT-35	Essential correction of 27.22.4.7.2 SEQ 2.2	F	6.8.0
CP-070065	0124	2	CT-35	Addition of new expected sequence to the SMS-PP Data Download test case	C	6.8.0

CP-doc	CR	REV	Meeting	SUBJECT	CAT	NEW_VERS
CP-070065	0125	2	CT-35	Addition of a new expected sequence to the SMS-CB Data Download test case	F	6.8.0
CP-070297	0127	2	CT-36	Essential correction of test case applicability	F	6.9.0
CP-070297	0128	-	CT-36	Correction of 27.22.4.2 applicability	F	6.9.0
CP-070297	0129	1	CT-36	Essential correction of test case applicability for 27.22.6.1	A	6.9.0
CP-070297	0130	1	CT-36	Essential correction on 27.22.8	A	6.9.0
CP-070297	0131	-	CT-36	Essential correction on 27.22.5.1	F	6.9.0
CP-070297	0132	-	CT-36	Essential correction on 27.22.4.11.1 sequence. 1.4 B	F	6.9.0
CP-070297	0133	-	CT-36	Correction of reference to ISO/IEC 7816-3	A	6.9.0
CP-070614	0135	-	CT-37	TS 31.124, Rel-6 content replacement by reference to TS 31.124, Rel-7	F	6.10.0

History

Document history		
V6.0.0	March 2005	Publication
V6.1.0	June 2005	Publication
V6.2.1	October 2005	Publication
V6.3.0	December 2005	Publication
V6.4.0	March 2006	Publication
V6.5.0	June 2006	Publication
V6.6.0	September 2006	Publication
V6.7.0	November 2006	Publication
V6.8.0	March 2007	Publication
V6.9.0	June 2007	Publication
V6.10.0	October 2007	Publication