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**Smart Cards;  
UICC-Terminal interface;  
Card Application Toolkit (CAT) conformance specification  
(Release 10)**

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**Reference**

RTS/SCP-00014va40

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**Keywords**

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**ETSI**

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# Contents

Intellectual Property Rights .....	4
Foreword.....	4
Modal verbs terminology.....	5
Introduction .....	5
1 Scope .....	6
2 References .....	6
2.1 Normative references .....	6
2.2 Informative references.....	7
3 Definition of terms, symbols and abbreviations.....	7
3.1 Terms.....	7
3.2 Symbols.....	7
3.3 Abbreviations .....	7
4 Test equipment .....	7
5 Testing methodology in general.....	8
6 Void.....	8
7 Measurement uncertainty .....	8
8 Format of tests .....	8
9 Generic call set up procedures.....	8
10 to 26 Void.....	8
27 Testing of the UICC/Terminal interface .....	8
<b>Annex A (normative): Details of Test-SIM (TestSIM).....</b>	<b>9</b>
<b>Annex B (normative): Details of terminal profile support .....</b>	<b>10</b>
<b>Annex C (informative): Bibliography .....</b>	<b>11</b>
<b>Annex D (informative): Change history .....</b>	<b>12</b>
History .....	14

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# Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Secure Element Technologies (SET).

It is based on work originally done in the 3GPP in TSG-terminals WG3.

The contents of the present document are subject to continuing work within TC SET and may change following formal TC SET approval. If TC SET modifies the contents of the present document, it will then be republished by ETSI with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

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  - 1 presented to TC SET for information;
  - 2 presented to TC SET for approval;
  - 3 or greater indicates TC SET approved document under change control.
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- z the third digit is incremented when editorial only changes have been incorporated in the document.

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## 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).

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## Introduction

The present document defines the Card Application Toolkit (CAT) test conformance for the Terminal.

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.

Application specific tests for applications residing on an UICC are specified in ETSI TS 131 124 [9].

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# 1 Scope

The present document describes the technical characteristics and methods of test for testing the Card Application Toolkit implemented in Terminals for the UICC, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [3] and ETSI ETS 300 406 [4].

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

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

For a full description of the system, reference should be made to all the ETSI technical specifications or ETSI related ETSs or ENs. Clause 2 provides a complete list of the ETSI technical specifications, ETSI related 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 ETSI technical specification or ETSI related ETS or EN, then the other ETSI technical specification or ETSI related ETS or EN is to be considered the authoritative reference.

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## 2 References

### 2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

- In the case of a reference to a TC SET document, a non specific reference implicitly refers to the latest version of that document in the same Release as the present document.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

- |     |  |
|-----|--|
| [1] | Void.  |
| [2] | Void.  |
| [3] | ISO/IEC 9646-7 (1995): "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 7: Implementation Conformance Statements". |
| [4] | ETSI ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".                      |
| [5] | Void.  |
| [6] | Void.  |
| [7] | Void.  |

- [8] Void.
- [9] ETSI TS 131 124: "Universal Mobile Telecommunications System (UMTS); LTE; 5G; Mobile Equipment (ME) conformance test specification; Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification (3GPP TS 31.124)".
- [10] Void.
- [11] Void.
- [12] Void.
- [13] Void.
- [14] Void.
- [15] Void.
- [16] ETSI TS 102 384: "Smart Cards; UICC-Terminal interface; Card Application Toolkit (CAT) conformance specification (Release 11)".

## 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

Void.

### 3.2 Symbols

Void.

### 3.3 Abbreviations

Void.

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## 4 Test equipment

Void.

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## 5 Testing methodology in general

Void.

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## 6 Void

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## 7 Measurement uncertainty

Void.

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## 8 Format of tests

Void.

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## 9 Generic call set up procedures

Void.

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## 10 to 26 Void

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## 27 Testing of the UICC/Terminal interface

All test cases are present in ETSI TS 102 384 [16] release 11.



## Annex A (normative): Details of Test-SIM (TestSIM)

Void.

## Annex B (normative): Details of terminal profile support

Void.

## Annex C (informative): Bibliography

Void.

## Annex D (informative): Change history

The table below indicates all change requests that have been incorporated into the present document since it was created by TC SET.

Change history								
Date	Meeting	Doc	CR	Rev	Cat	Subject/Comment	Old	New
2005-05	SCP#21	SCP-050135				Spec was approved during SCP-Plenary#21	2.0.0	6.0.0
2005-09	SCP#22	SCP-050298	001		F	Essential corrections in display icons Setup Menu and Select Item	6.0.0	6.1.0
		SCP-050299	002		F	Correction of option, applicability and terminal profile support tables		
		SCP-050300	003		F	Correction to UCS2 Tests		
2005-12	SCP#23	SCP-050495	004		F	Essential corrections of Set Up Menu test	6.1.0	6.2.0
		SCP-050496	005		F	ETSI TS 102 384: Essential corrections to Select Item (icons support)		
		SCP-050497	006		F	Essential correction of applicability table		
		SCP-050499	007		F	Essential correction of replacing USIM/SIM related application to a generic application		
2006-07	SCP#26	SCP-060297	009		F	Essential correction of IMEISV coding for the Provide Local Information	6.2.0	6.3.0
		SCP-060298	010		F	Essential correction of Language Selection Event test		
		SCP-060299	011		F	Essential correction of Set Up Menu - Text attribute tests		
		SCP-060300	012		F	Essential correction of RUN AT Command for text attribute tests		
		SCP-060301	013		F	Essential correction of tables B.1 and E.1		
		SCP-060302	014		F	Essential correction of 27.22.4.8.7, seq. 7.1		
		SCP-060303	015		F	Essential correction of 27.22.4.9.10, seq. 10.1		
		SCP-060304	016		F	Essential correction of Set Up Idle Mode Text for text attribute tests		
		SCP-060305	017		F	Collection of essential corrections required for the split of 3GPP TS 31.124		
		SCP-060306	018		F	Essential correction of general test case applicability		
2006-09	SCP#27	SCP-060479	019		F	Essential correction of RUN AT Command for text attribute tests	6.3.0	6.4.0
		SCP-060480	020		F	Corrections in the interpretation of Katakana Character		
		SCP-060481	021		F	Correction of various typographical errors		
		SC-P060482	022		F	Corrections in SET UP MENU tests		
		SCP-060483	023		F	Essential correction of GET INPUT test		
		SCP-060484	024		F	Correction of GET INKEY test		
2007-01	SCP#29	SCP-07066	025		F	Essential correction to 27.22.4.8.7	6.4.0	6.5.0
		SCP-07066	026		F	Essential correction to Get Inkey - Variable timeout test		
2008-01	SCP#35	SCP-080053	027		F	Correction of DISPLAY TEXT (Variable Time out) test	6.5.0	6.6.0
2008-07	SCP#38	SCP-080338	029		F	Essential correction of test 27.22.4.15 Seq. 1.11	6.5.0	6.6.0
2008-07	SCP#38	SCP-080338	028		B	Addition of UICC server mode test cases	6.6.0	7.0.0
2010-03	SCP#44	SCP(10)0010	030		F	Corrections to BIP - UICC in server mode tests	7.0.0	7.1.0
2010-10	SCP#46	SCP(10)0220	032		F	Essential correction of test 27.22.4.9.3	7.1.0	7.2.0

Change history								
Date	Meeting	Doc	CR	Rev	Cat	Subject/Comment	Old	New
2010-10	SCP#47	SCP(11)0009	033		F	UICC Server Mode test cases: addition of buffer size option	7.2.0	7.3.0
2010-10	SCP#47	SCP(11)0010	034		F	BIP - UICC in server mode tests: correction of Event Download - Channel Status Envelopes	7.2.0	7.3.0
2010-10	SCP#47	SCP(11)0011	035		F	Removal of UICC Server Mode test OPEN CHANNEL 6.3	7.2.0	7.3.0
2010-10	SCP#47	SCP(11)0012r1	036	1	F	Correction of GET CHANNEL STATUS (related to UICC server mode) test cases	7.2.0	7.3.0
2010-10	SCP#47	SCP(11)0013	037		F	Correction of Channel Status event (related to UICC server mode) test case	7.2.0	7.3.0
2011-03	SCP#48	SCP(11)0099	038		F	Introduction to Launch application envelop and Open channel Terminal mode tests	7.2.0	7.3.0
2011-09	SCP#52	SCP(11)0295	039		F	Correction of GET INKEY with variable timeout test case	7.3.0	7.4.0
2012-03	SCP#54	SCP(12)000026	040		F	Missing chapter for Display parameter changed event	7.4.0	7.5.0
2012-03	SCP#54	SCP(12)000023r1	041		B	Introduction of test case for the Activate command	7.4.0	7.5.0
2012-03	SCP#54	SCP(12)000025	042		B	Introduction of test case for the HCI connectivity event	7.4.0	7.5.0
2012-09	SCP#56	SCP(12)000168	043		B	3GPP terminal profile value reservation for releases 6, 7 and 8	7.5.0	8.0.0
2012-09	SCP#56	SCP(12)000169	044		B	Reduced capability terminals test applicability	7.5.0	8.0.0
2012-09	SCP#56	SCP(12)000170	045		B	Addition of tests for Location Information for Broadcast technologies	7.5.0	8.0.0
2013-03	SCP#58	SCP(13)000020	046		D	Annex B upgrade	8.0.0	9.0.0
2013-03	SCP#58	SCP(13)000021	047		B	Introduction of test cases for Contactless State Change/Request	8.0.0	9.0.0
2013-06	SCP#59	SCP(13)000094	048		B	Tests for Open Channel terminal server mode with user confirmation	9.0.0	10.0.0
2013-09	SCP#60	SCP(13)000125	049		D	Port number coding alignment	10.0.0	10.1.0
2013-10	SCP#61	SCP(13)000208	050		F	Correction of TC 27.22.4.33 and TC 27.22.7.19	10.1.0	10.2.0
		SCP(13)000207	051		D	Applicability table reformatting	10.1.0	10.2.0
		SCP(13)000209	052		F	Modification of test case 27.22.7.18	10.1.0	10.2.0
2014-12	SCP#66	SCP(14)000297	053		F	Essential correction of mismatch between proactive command coding and expected text to be displayed.	10.1.0	10.2.0
2015-04	SCP#67	SCP(15)000109r1	057	1	B	Test cases for direct communication channel to terminal applications	10.2.0	10.3.0
2015-07						To comply with ETSI drafting rules: - removal of hanging paragraphs through addition of missing section headers	10.2.0	10.3.0
2017-11	SCP#81	SCP(17)000169r1	059		B	Rel-10 content replacement by reference to ETSI TS 102 384, Rel-11	10.3.0	10.4.0

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# History

<b>Document history</b>		
V10.0.0	July 2013	Publication
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