

# ETSI TS 102 230 V6.0.0 (2010-04)

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*Technical Specification*

## **Smart Cards; UICC-Terminal interface; Physical, electrical and logical test specification (Release 6)**

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Reference

RTS/SCP-00013v600

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Keywords

smart card, testing

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## Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Smart Card Platform (SCP).

The contents of the present document are subject to continuing work within TC SCP and may change following formal TC SCP approval. If TC SCP decide to modify the contents of the present document, it will be re-released by EP SPC 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 TC SCP for information;
  - 2 presented to TC SCP for approval;
  - 3 or greater indicates TC SCP 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.

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## Introduction

The present document defines the interface tests for the Terminal/UICC interface.

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 TS 131 121 [4].

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# 1 Scope

The present document specifies the interface test for the Terminal/UICC.

The present document specifies the tests of:

- physical characteristics of the UICC;
- the electrical interface between the UICC and the Terminal;
- the initial communication establishment and the transport protocols;
- the application independent procedures.

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# 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- In the case of a reference to a TC SCP document, a non specific reference implicitly refers to the latest version of that document in the same Release as the present document.
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## 2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

- |     |   |
|-----|---|
| [1] | Void.   |
| [2] | Void.   |
| [3] | Void.   |
| [4] | ETSI TS 131 121: "Universal Mobile Telecommunications System (UMTS); UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification (3GPP TS 31.121)". |
| [5] | Void.   |
| [6] | ETSI TS 102 230: "Smart cards; UICC-Terminal interface; Physical, electrical and logical test specification (Release 7)".   |

## 2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Not applicable.

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## 3 Definitions, symbols, abbreviations and coding conventions

Void

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## 4 Requirements

All test cases are present in TS 102 230 [6].

Annex A:  
Void

## Annex B (informative): Change history

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

Change history								
Date	Meeting	Doc	CR	Rev	Cat	Subject/Comment	Old	New
2001-06	SCP-06	SCP-010156				TSG-T #11 agreed to transfer the contents of the test specification, 3GPP TS 31.120 to EP SCP. V1.0.0 is submitted to EP SCP for approval. It contains only editorial changes compared to 3GPP TS 31.120 V3.0.0		1.0.0
2001-06	SCP-06	SCP-010194				Undoing a change regarding the coding conventions in clause 3.4	1.0.0	1.0.1
2001-06	SCP-06	-				EP SCP agreed that V1.0.1 was ready to be put under change control. As a result, V3.0.0 was created.	1.0.1	3.0.0
2001-07	SCP-06	SCP-010193	001		B	Alignment with Rel-4 version of core specification (UICC current consumption values for 3 V and 1.8V)	3.0.0	4.0.0
		SCP-010200	002		F	Correction of ATR examples regarding DCB and T4		
2002-03	SCP-09	SCP-020052	003		F	Correction of Errors in UICC type recognition	4.0.0	4.1.0
2003-01	SCP-12	SCP-030013	005		F	Correction of test on processing of ACK, NACK, NULL procedure bytes and correction of CHV	4.1.0	4.2.0
		SCP-030062	006		D	Remove UICC as an abbreviation to align with 3GPP TR 21.905		
2003-09	SCP-14	SCP-030288	007		F	Upgrade to Rel-5 version of the specification	4.2.0	5.0.0
2004-05	SCP-17	SCP-040284	010		A	Removal of test 6.4 and modification of the numbering order of electrical tests in clause 5.2	5.0.0	5.1.0
2004-09	SCP#18	SCP-040376	015		A	Removal of transmit for WWT exceeded in test 7.2.1 Timing	5.1.0	5.2.0
2004-11	SCP#19	SCP-040489	020		A	Non-specific Referencing	5.2.0	5.3.0
		SCP-040492	023		A	Modification of test 7.3.2 Block Timing		
2005-06	SCP#21	SCP-050129	026		F	Correction of test case 7.3.9	5.3.0	5.4.0
		SCP-050131	029		F	Correction of test case 7.3.11		
		SCP-050186	032		F	Correction of references to ISO/IEC 7816		
2005-09	SCP#22	SCP-050297	035		A	Change of internal references	5.4.0	5.5.0
2006-03	SCP#25	SCP-060160	038		A	Removal of test case 5.1.5.5	5.5.0	5.6.0
2007-01	SCP#29	SCP-070062	041		A	Essential correction of "Chaining - IFSD management" test case	5.6.0	5.7.0
2007-10	SCP#33	SCP-070446	049		F	CR to ETSI TS 102 230, Rel-5: Adding an applicability table to generate a base for a combined Rel-5 to Rel-7 test specification Note: incorrect CR number renumbered from 42 to 49	5.7.0	5.8.0
2008-07	SCP#38	SCP-080337	047		A	CR 102 230 Rel-5 Essential correction of ATR coding	5.7.0	5.8.0
2008-10	SCP#39	SCP-080414	050		F	Correction of cl. 5.2 chapter numbering	5.8.0	5.9.0
2009-04	SCP#41	SCP-090178	051		F	Deletion of REL-5 and earlier content and creation of REL-6 of TS 102 230	5.9.0	5.10.0
2010-03	-----	-----	----		-	Creation of Rel-6 of the specification	5.10.0	6.0.0

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# History

<b>Document history</b>		
V6.0.0	April 2010	Publication