

# ETSI TS 102 230 V3.12.0 (2010-04)

---

*Technical Specification*

**Smart Cards;  
UICC-Terminal interface;  
Physical, electrical and logical test specification  
(Release 1999)**

---



---

Reference

RTS/SCP-00012rb

---

Keywords

smart card, testing

**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](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 2010.  
All rights reserved.

**DECT™**, **PLUGTESTS™**, **UMTS™**, **TIPHON™**, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

**3GPP™** is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

**LTE™** is a Trade Mark of ETSI currently being 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.

---

# Contents

Intellectual Property Rights .....	4
Foreword.....	4
Introduction .....	4
1    Scope .....	5
2    References .....	5
2.1    Normative references .....	5
2.2    Informative references.....	6
3    Definitions, symbols, abbreviations and coding conventions .....	6
4    Requirements.....	6
<b>Annex A:    Void .....</b>	<b>7</b>
<b>Annex B (informative):    Change history .....</b>	<b>8</b>
History .....	9

---

## 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 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.

---

## 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].

---

# 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.

---

# 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.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
  - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
  - for informative references.

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.

## 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] | ETSI TS 102 230: "Smart Cards; UICC-Terminal interface; Physical, electrical and logical test specification (Release 4)".   |

## 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.

---

## 3 Definitions, symbols, abbreviations and coding conventions

Void

---

## 4 Requirements

All test cases are present in TS 102 230 [5].

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-010200	002		F	Correction of ATR examples regarding DCB and T4	3.0.0	3.1.0
2003-01	SCP#12	SCP-030013	004		F	Correction of test on processing of ACK, NACK, NULL procedure bytes and correction of CHV	3.1.0	3.2.0
						UICC as an abbreviation deleted without CR (see SCP-030062)		
2004-05	SCP#17	SCP-040282	008		F	Removal of test 6.4 and modification of the numbering order of electrical tests in clause 5.2	3.2.0	3.3.0
		SCP-040285	011		F	Change of test 8.1 UICC presence detection		
2004-09	SCP#18	SCP-040374	013		F	Removal of transmit for WWT exceeded in test 7.2.1 Timing	3.3.0	3.4.0
		SCP-040377	016		F	Rename clause 8 to Application dependent procedures		
2004-11	SCP#19	SCP-040487	018		F	Non-specific Referencing	3.4.0	3.5.0
		SCP-040490	021		F	Modification of test 7.3.2 Block Timing		
2005-06	SCP#21	SCP-050125	025		F	Correction of test case 7.3.9	3.5.0	3.6.0
		SCP-050126	027		F	Correction of test case 7.3.11		
		SCP-050184	030		F	Correction of references to ISO/IEC 7816		
2005-09	SCP#22	SCP-050295	033		F	Change of internal references	3.6.0	3.7.0
2006-03	SCP#25	SCP-060158	036		F	Removal of test case 5.1.5.5	3.7.0	3.8.0
2007-01	SCP#29	SCP-070060	039		F	Essential correction of 'Chaining - IFSD management' test case	3.8.0	3.9.0
		SCP-070063	042		F	Essential correction of UICC presence detection test		
2008-07	SCP#37	SCP-080337	048		F	Essential correction of the test case applicability for terminals not supporting speech calls Note: CR in SCPtest080141 is renumbered from 43 to 48.	3.9.0	3.10.0
			045		F	Essential correction of ATR coding		
2008-10	SCP#39	SCP-080414	048		F	Essential correction of TC 8.1 applicability	3.10.0	3.11.0
2009-03	SCP#44	SCP(10)0062	057		F	Deletion of R99 content of TS 102 230	3.11.0	3.12.0

---

## History

<b>Document history</b>		
V3.1.0	July 2001	Publication
V3.2.0	February 2003	Publication
V3.3.0	June 2004	Publication
V3.4.0	September 2004	Publication
V3.5.0	December 2004	Publication
V3.6.0	July 2005	Publication
V3.7.0	October 2005	Publication
V3.8.0	May 2006	Publication
V3.9.0	February 2007	Publication
V3.10.0	October 2008	Publication
V3.11.0	January 2009	Publication
V3.12.0	April 2010	Publication