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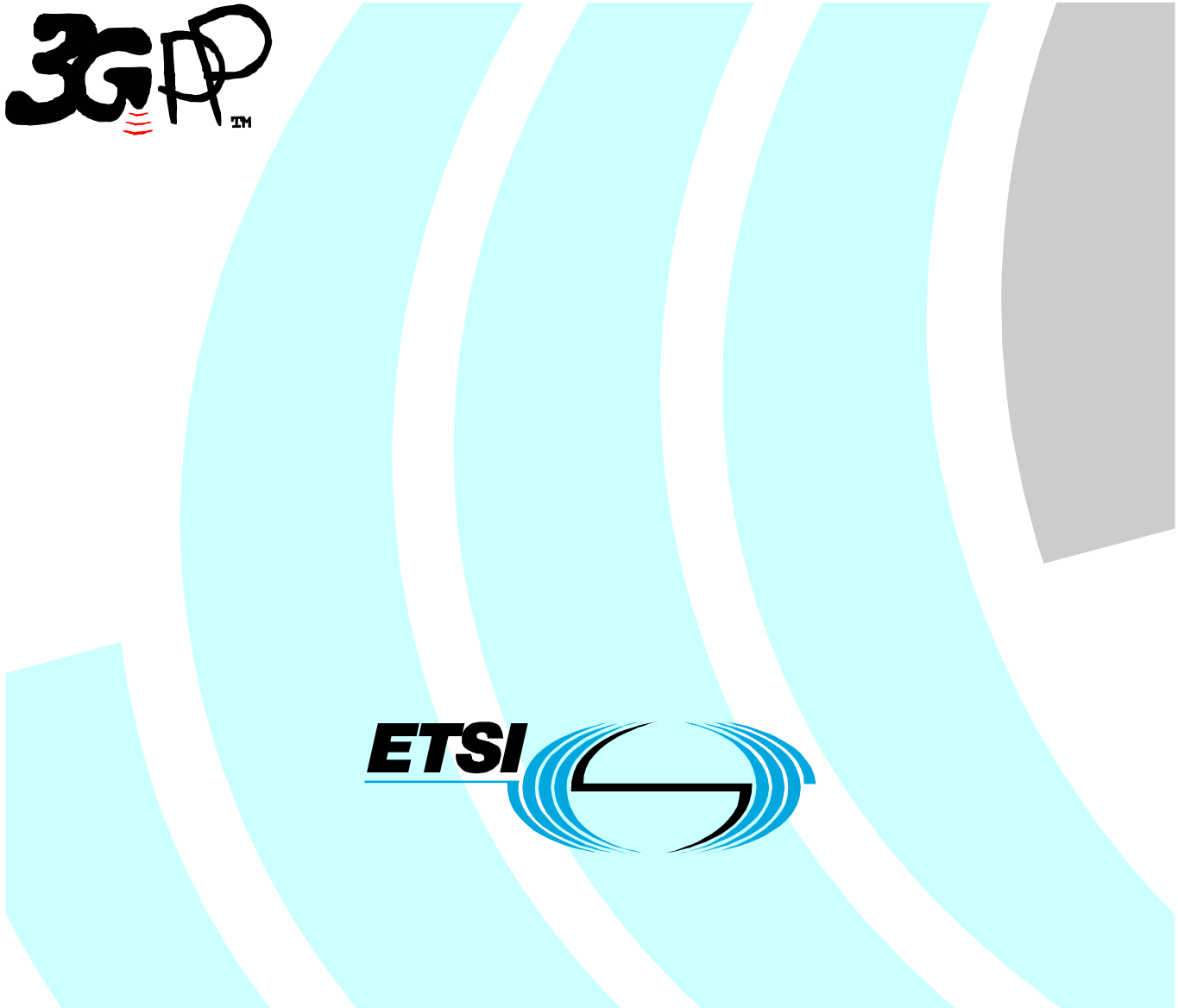
Technical Specification

Universal Mobile Telecommunications System (UMTS);
UICC-terminal interface;
Physical and logical characteristics
(3GPP TS 31.101 version 5.0.0 Release 5)



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Foreword

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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 www.etsi.org/key .

Contents

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 a generic Terminal/Integrated Circuit Card (ICC) interface. The present document is independent of the 3G USIM application and can thus be the platform for any IC card application.

The aim of the present document is to ensure interoperability between an ICC 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 ICC. Any internal technical realisation of either the ICC or the terminal is only specified where these are reflected over the interface.

Application specific details for applications residing on an ICC are specified in the respective application specific documents. The Universal Subscriber Identity Module (USIM)-application for 3G telecommunication networks is specified in document 3G TS 31.102 [2].

1 Scope

The present document specifies the interface between the UICC and the Terminal for 3G telecom network operation.

The present document specifies:

- the requirements for the physical characteristics of the UICC;
- the electrical interface between the UICC and the Terminal;
- the initial communication establishment and the transport protocols;
- the model which serves as a basis for the logical structure of the UICC;
- the communication commands and the procedures;
- the application independent files and protocols.

The administrative procedures and initial card management are not part of the present document.

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.

[1] ETSI TS 102 221 "Smart Cards; UICC-Terminal interface; Physical and logical characteristics (Release 1999)".

[2] 3GPP TS 31.102: "Characteristics of the USIM Application".

3 Definitions, symbols, abbreviations and coding

All definitions, symbols, abbreviations applicable to the terminal are specified in TS 102 221 [1].

4 Physical and logical characteristics

The UICC/terminal interface shall comply with all requirements stated in ETSI TS 102 221 [1]. Where options are indicated in ETSI TS 102 221 [1], 3GPP TS 31.102 [2] specifies which option is to be used for a UICC/terminal interface where the UICC supports a USIM.

Annex A (informative): Change history

The table below indicates all change requests that have been incorporated into the present document since it was initially approved by 3GPP TSG-T.

Change history								
Date	**Meeting**	**TSG Doc.**	**CR**	**Rev**	**Cat**	**Subject/Comment**	**Old**	**New**
2000-04	TP-07	TP-000013	001	3	B	Security Attributes	3.0.0	3.1.0
		TP-000013	002	2	B	Incorporation of the USAT (USIM application toolkit) features.		
		TP-000013	003	3	B	File Control Parameters		
		TP-000013	004	1	F	Coding of status words		
		TP-000013	006		B	Definition of application session related procedures		
		TP-000013	007		D	Collection of 31.101 editorial changes		
		TP-000013	008		C	Power consumption		
		TP-000013	009		F	Changes to UICC specific files		
		TP-000013	010		F	Reservation of file IDs		
2000-07	TP-08	TP-000094	011		F	Error detection and character repetition	3.1.0	3.2.0
		TP-000094	012		F	Use of status codes 6200, 6400 and 6500		
		TP-000094	013		F	Correction of P2 value for the ACTIVATE and DEACTIVATE commands		
		TP-000094	014		F	Clarification of the UICC characteristics byte		
		TP-000094	015		F	Correction of ACTIVATE/DEACTIVATE commands		
		TP-000094	016		F	Clarification of the file descriptor		
		TP-000094	017		F	Selection by path correction		
		TP-000094	018	1	F	Correction of ATR examples		
		TP-000094	019		F	SEARCH RECORD command: alignment with ISO/IEC 7816-9		
		TP-000094	020		F	Correction to T=0 mechanism		
		TP-000094	022		F	Correction of the application activation termination procedures		
2000-10	TP-09	TP-000151	023		F	Replacement of the technical contents with a reference to ETSI TS 102 221. (Note: ETSI TS 101 221 is identical in technical content to TS 31.101 v3.2.0 plus the addition of several changes as listed in the annex of TS 102 221)	3.2.0	3.3.0
2001-03	TP-11					Issued as version 4.0.0 in order to create a complete set of specifications for release 4. The contents of version 4.0.0 are identical to the contents of version 3.3.0	3.3.0	4.0.0
2002-09	TP-17					Issued as version 5.0.0 in order to create a complete set of specifications for release 5. The contents of version 5.0.0 are identical to the contents of version 4.0.0. This was required as there was a CR to release 4 creating release 6 of the specification.	4.0.0	5.0.0

History

Document history		
V5.0.0	September 2002	Publication