

# ETSI TS 131 133 V7.4.0 (2011-05)

*Technical Specification*

**Digital cellular telecommunications system (Phase 2+);  
Universal Mobile Telecommunications System (UMTS);  
LTE;  
IP Multimedia Services Identity Module (ISIM)  
Application Programming Interface (API);  
ISIM API for Java Card™  
(3GPP TS 31.133 version 7.4.0 Release 7)**



---

Reference

RTS/TSGC-0631133v740

---

Keywords

GSM, 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](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 2011.  
All rights reserved.

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

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

**LTE**<sup>TM</sup> is a Trade Mark of ETSI currently being registered

for the benefit of its Members and of the 3GPP Organizational Partners.

**GSM**<sup>®</sup> and the GSM logo are Trade Marks registered and owned by the GSM Association.

---

## 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 Rights .....	2
Foreword.....	2
Foreword.....	4
1 Scope .....	5
2 References .....	5
3 Definitions and abbreviations.....	5
3.1 Definitions .....	5
3.2 Abbreviations .....	5
4 Description .....	5
4.0 Overview .....	5
4.1 ISIM Java Card™ architecture .....	6
5 File Access API.....	6
<b>Annex A (normative): Java Card™ ISIM API.....</b>	<b>7</b>
<b>Annex B (normative): Java Card™ ISIM API identifiers .....</b>	<b>8</b>
<b>Annex C (normative): ISIM API package version management .....</b>	<b>9</b>
<b>Annex D (normative): ISIM API jar files .....</b>	<b>10</b>
<b>Annex E (informative): Change History .....</b>	<b>11</b>
History .....	12

---

# Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> 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 defines the ISIM Application Programming Interface extending the "UICC API for Java Card™" [2].

This API allows to develop an application running together with a ISIM application.

The present document includes information applicable to network operators, service providers, server -,–ISIM – and database manufacturers.

---

# 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 same Release as the present document*.

- [1] ETSI TS 101 220 Release 7: "Smart Cards; ETSI numbering system for telecommunication application providers".
- [2] ETSI TS 102 241 V7.9.0: "Smart Cards; UICC Application Programming Interface (UICC API) for Java Card™".
- [3] 3GPP TS 31.103: "Characteristics of the IP Multimedia Services Identity Module (ISIM) application".

---

# 3 Definitions and abbreviations

## 3.1 Definitions

For the purposes of the present document, the terms and definitions defined in ETSI TS 102 241 [2] apply.

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in ETSI TS 102 241 [2] apply.

---

# 4 Description

## 4.0 Overview

This API is an extension to the ETSI TS 102 241 [2] "UICC API for Java Card™" and requires the implementation of this specification.

The classes and interfaces described in this specification inherit functionality from the classes and interfaces specified in ETSI TS 102 141[2] "UICC API for Java Card™".

## 4.1 ISIM Java Card™ architecture

The overall architecture of the ISIM API is based on the "UICC API for Java Card™" defined in ETSI TS 102 2412].

---

## 5 File Access API

The ISIM file access API consists of the package *uicc.isim.access*. This package defines additional constants to those defined in the *uicc.access* package from ETSI TS 102 241 [2]. The access to the file system, defined in TS 31.103 [3] is the one specified in ETSI TS 102 241 [2] via the UICC *FileView* Interface.

---

## Annex A (normative): Java Card™ ISIM API

The attached files "31133\_Annex\_A\_Java.zip", and "31133\_Annex\_A\_HTML.zip" contain source files and html documentation for the Java Card™ ISIM API.



---

## Annex B (normative): Java Card™ ISIM API identifiers

The attached file "31133\_Annex\_B\_Export\_files.zip" contains the export files for the uicc.isim.access package.

---

## Annex C (normative): ISIM API package version management

The following table describes the relationship between each TS 31.133 specification version and its packages AID and Major, Minor versions defined in the export files.

TS 31.133	uicc.isim.access package	
	AID	Major, Minor
	A0 00 00 00 87 10 05 FF FF FF FF 89 14 10 00 00	1.1

The package AID coding is defined in ETSI TS 101 220 [1]. The ISIM API packages AID are not modified by changes to Major or Minor Version.

The Major Version shall be incremented if a change to the specification introduces byte code incompatibility with the previous version.

The Minor Version shall be incremented if a change to the specification does not introduce byte code incompatibility with the previous version.

The package *uicc.isim.access* contains only constants, therefore it may not be loaded on the UICC.

---

## Annex D (normative): ISIM API jar files

The attached file "31133\_Annex\_D.jar" contains class files for the Java Card™ ISIM API.

## Annex E (informative): Change History

TSG / Date	TSG doc	WG doc	CR	Rev	Subject/Comment	New
2005-08					Initial presentation during CT6#36 Plenary	0.1.0
2005-08					Presented during CT6#36 Plenary with editorial changes	0.2.0
2005-08					Agreed in CT6#36 Plenary to send for information to CT plenary	0.2.1
2006-05	CP-060246 (not presented at CT#32)				Agreed in CT6#39 Plenary to send for information to CT plenary	1.0.0
2006-11					Presented during CT6#41 for approval	2.0.0
2006-11					Presented during CT6#41 for approval	2.1.0
2006-11					Agreed during CT6#41 to send for approval to CT	2.1.1
2006-12	CP-060703				Approved at CT#34	7.0.0
2007-06	CP-070303	C6-070262	0001	-	Correction of the reference to ETSI TS 102 241	7.1.0
CT-38	CP-070845	C6-070565	0002	1	Introduction of a new constant value for a file in the ISIM application	7.2.0
					[2008-08] Attachments for annexes A and B supplied	7.2.1
					[2008-10] History box previous entry supplied (!)	7.2.2
CT-46	CP-090988	C6-090496	0003	1	References update	7.3.0
CT-51	CP-110234	C6-110065	0006	1	uicc.isim.access package version update	7.4.0

---

## History

<b>Document history</b>		
V7.1.0	June 2007	Publication
V7.2.0	January 2008	Publication
V7.2.1	October 2008	Publication
V7.2.2	November 2008	Publication
V7.3.0	January 2010	Publication
V7.4.0	May 2011	Publication