ETSI TS 131 133 V17.0.0 (2022-04)

TECHNICAL SPECIFICATION

Digital cellular telecommunications system (Phase 2+) (GSM);
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 17.0.0 Release 17)

Reference

RTS/TSGC-0631133vh00

Keywords

GSM,LTE,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 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from:
http://www.etsi.org/standards-search

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format at www.etsi.org/deliver.

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
https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx

If you find errors in the present document, please send your comment to one of the following services:
https://portal.etsi.org/People/CommiteeSupportStaff.aspx

If you find a security vulnerability in the present document, please report it through our
Coordinated Vulnerability Disclosure Program:
https://www.etsi.org/standards/coordinated-vulnerability-disclosure

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.
No recommendation as to products and services or vendors is made or should be implied.
No representation or warranty is made that this deliverable is technically accurate or sufficient or conforms to any law and/or governmental rule and/or regulation and further, no representation or warranty is made of merchantability or fitness for any particular purpose or against infringement of intellectual property rights.
In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

Copyright Notification

ETSI

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are 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 (https://ipr.etsi.org/).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, 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.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™** and **LTE™** are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM**® and the GSM logo are trademarks registered and owned by the GSM Association.

Legal Notice

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. These shall be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

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).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Contents

Foreword

This Technical Specification 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.

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 5anufactures.

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: "Smart Cards; ETSI numbering system for telecommunication application providers".

[2] ETSI TS 102 241 V13.0.0: "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 102 241[2].

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

Change history							
Date	**Meeting**	**TDoc**	**CR**	**R ev**	**Cat**	**Subject/Comment**	**New version**
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 presente d 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
------------	------------	------------	-------			Upgrade to copyright, keywords and logo for LTE	8.0.0
CT-46	CP-091011	C6-090497	0004	-		References upgrade	8.1.0
CT-46	-	-	-	-		Upgrade of the specification to Rel-9	9.0.0
CT-50	CP-100836	C6-100602	0005	1		Update reference to TS 102 241 v9.0.0 reference	9.1.0
CT-51	CP-110234	C6-110067	0008	1		uicc.isim.access package version update	9.2.0
SP-51						Automatic upgrade from previous version 9.2.0	10.0.0
SP-57						Automatic upgrade to Rel-11	11.0.0
SP-65						Automatic upgrade to Rel-12	12.0.0
SP-70						Automatic upgrade to Rel-13	13.0.0
SA-75	-	-	-			Update to Rel-14 version (MCC)	14.0.0
CT-78	CP-173150	C6-170659	0009	-		Update of reference to ETSI TS 102 241	14.1.0
						Missing attachments	14.1.1
SA80						Automatic upgrade to Rel-15	15.0.0
2020-07	-	-	-	-		Update to Rel-16 version (MCC)	16.0.0
2022-04	-	-	-	-	-	Update to Rel-17 version (MCC)	17.0.0

History

Document history		
V17.0.0	April 2022	Publication