

3GPP2 C.S0069-0

Version 1.0

Date: February 20, 2009



3RD GENERATION  
PARTNERSHIP  
PROJECT 2  
"3GPP2"

---

## ***ISIM Application on UICC for cdma2000 Spread Spectrum Systems***

### **COPYRIGHT**

3GPP2 and its Organizational Partners claim copyright in this document and individual Organizational Partners may copyright and issue documents or standards publications in individual Organizational Partner's name based on this document. Requests for reproduction of this document should be directed to the 3GPP2 Secretariat at [secretariat@3gpp2.org](mailto:secretariat@3gpp2.org). Requests to reproduce individual Organizational Partner's documents should be directed to that Organizational Partner. See [www.3gpp2.org](http://www.3gpp2.org) for more information.

1 No text.

1 Note: This is a replacement version of C.S0069-0 v1.0. The term 3GPP2 has been replaced  
2 with cdma2000<sup>®</sup> in sections 1, 3, and 5.

3

1 No text.

1 **Revision History**

<u>Revision</u>	<u>Description</u>	<u>Date</u>
C.S0069-0	Release 0	December 9, 2005
C.S0069-0	v1.0 Replacement text	February 20, 2009

2

3

1 No text.

1  
2  
3  
4  
5  
6  
7  
8  
9

## CONTENTS

1	PREFACE.....	1
2	REFERENCES.....	3
3	INTRODUCTION.....	3
4	DEFINITIONS, SYMBOLS, ABBREVIATIONS AND CODING CONVENTIONS.....	3
5	CHARACTERISTICS OF THE IP MULTIMEDIA SUBSYSTEM SERVICES	
6	IDENTITY MODULE (ISIM) APPLICATION.....	3
7		

- 1 No text.

1   **1   PREFACE**

2   For ISIM application for access to IMS services in cdma2000<sup>®1</sup> systems, the present  
3   document specifies:

- 4       • specific command parameters;
- 5       • file structures;
- 6       • contents of EFs (Elementary Files);
- 7       • security functions;
- 8       • application protocol to be used on the interface between UICC (ISIM) and Terminal.

9   This document addresses ISIM implementation on UICC only.

10   This is to ensure interoperability between an ISIM and Terminal independently of the  
11   respective manufacturer, card issuer or operator.

12   The present document does not define any aspects related to the administrative  
13   management phase of the ISIM. Any internal technical realization of either the ISIM or  
14   the Terminal is only specified where these are reflected over the interface. The present  
15   document does not specify any of the security algorithms that may be used.

16

17

18

---

<sup>1</sup> cdma2000<sup>®</sup> is the trademark for the technical nomenclature for certain specifications and standards of the Organizational Partners (OPs) of 3GPP2. Geographically (and as of the date of publication), cdma2000<sup>®</sup> is a registered trademark of the Telecommunications Industry Association (TIA-USA) in the United States.

1 NOTES

2 1. The following verbal forms are used: "Shall" and "shall not" identify requirements  
3 to be followed strictly to conform to the standard and from which no deviation is  
4 permitted. "Should" and "should not" indicate that one of several possibilities is  
5 recommended as particularly suitable, without mentioning or excluding others; that  
6 a certain course of action is preferred but not necessarily required; or that (in the  
7 negative form) a certain possibility or course of action is discouraged but not  
8 prohibited. "May" and "need not" indicate a course of action permissible within the  
9 limits of the standard. "Can" and "cannot" are used for statements of possibility and  
10 capability, whether material, physical, or causal.

11 2. Footnotes appear at various points in this specification to elaborate and to further  
12 clarify items discussed in the body of the specification.

13 3. Unless indicated otherwise, this document presents numbers in decimal form.

14 Binary numbers are distinguished in the text by the use of single quotation marks.  
15 In some tables, binary values may appear without single quotation marks if table  
16 notation clearly specifies that values are binary. The character 'x' is used to  
17 represent a bit of unspecified value. For example 'xxx00010' represents any 8-bit  
18 binary value such that the least significant five bits equal '00010'.

19 Hexadecimal numbers (base 16) are distinguished in the text by use of the form 0xh-  
20 h where hh represents a string of hexadecimal digits. For example, 0x2fa1  
21 represents a number whose binary value is '0010111110100001' and whose decimal  
22 value is 12193. Note that the exact number of bits in the binary representation of a  
23 hexadecimal number strictly depends upon the implementation requirements for  
24 the variable being represented.

25 4. "Base station" refers to the functions performed on the fixed network, which are  
26 typically distributed among a cell, a sector of a cell, and a mobile communications  
27 switching center.

28

## 2 REFERENCES

The following standards are referenced in this text. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based upon this document are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. ANSI and TIA maintain registers of currently valid national standards published by them.

1. ETSI TS 102 221, *Smart Cards; UICC-Terminal interface; Physical and logical characteristics*, Release 6.
2. 3GPP TS 31.103 *Characteristics of the IP Multimedia Services Identity Module application*, Release 6.
3. 3GPP2 S.R0086-A IMS Security Framework, June 2004.
4. 3GPP2 X.S0013-002-0 IP Multimedia Subsystem – Stage 2, February 2004.
5. C.S0074-0, *UICC-Terminal interface Physical and Logical characteristics for Spread Spectrum systems*, December 2005.

## 3 INTRODUCTION

The present document defines the IP Multimedia Services Identity Module (ISIM) application. This application resides on the UICC, an IC card specified in [1]. In particular, [5] specifies the application independent properties of the UICC/terminal interface such as the physical characteristics and the logical structure in the context of cdma2000® systems.

## 4 DEFINITIONS, SYMBOLS, ABBREVIATIONS AND CODING CONVENTIONS

All definitions, symbols, abbreviations applicable to the ISIM are specified in [2].

## 5 CHARACTERISTICS OF THE IP MULTIMEDIA SUBSYSTEM SERVICES IDENTITY MODULE (ISIM) APPLICATION

The IP Multimedia Subsystem for Spread Spectrum system is specified in [4]. The IMS Security Framework for Spread Spectrum Systems is specified in [3].

The ISIM application for cdma2000® systems shall comply with all requirements stated in [2]. Reference [14] specified in [2] shall be interpreted as reference [3] of this document in the context of cdma2000® systems.

NOTE: The file EF<sub>P-CSCF</sub> specified in [2] is mandatory for cdma2000® systems.