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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 29271.1-2012

**Identification cards -- Integrated circuit card programming
interfaces -- Part 1: Architecture**

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Foreword

GB/T 29271 "Identification cards - Integrated circuit card programming interfaces" is divided into the following six sections.

- Part 1. Architecture;
- Part 2. Generic card interface;
- Part 3. Application Interface;
- Part 4. Application Programming Interface (API) management;
- Part 5. Test procedures;
- Part 6. Registration Regulations implement interoperable authentication protocol.

This section GB/T 29271 Part 1.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with ISO /IEC 24727-1.2007

"Identification cards - Integrated circuit card programming interfaces - Part 1.

Architecture".

Consistency correspondence between this part of international documents and normative references of our files are as follows.

- GB/T 16649.15-2010 Identification cards - Integrated circuit cards - Part 15. Application password information (ISO /IEC 7816-15.

2004, IDT)

- GB/T 16263-2006 Information technology - ASN.1 encoding rules (ISO /IEC 8825.2002, IDT)

- GB/T 29271.2-2012 Identification cards - Integrated circuit card programming interfaces - Part 2. Generic card interface

(ISO /IEC 24727-2.2008, IDT)

This part made the following editorial changes.

- The first segment of international standards in the range of descriptive text changes to the Introduction;
- Adds to the standard reference text in the normative references;
- An increase of some abbreviations;
- Delete the references to international standards.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This section drafted by. China Electronics Standardization Institute, Eastcom Peace Smart Card Co., Ltd., Beijing Hua Dazhi Electronic

System Co., Ltd., Shenzhen special document production center study.

Introduction

GB/T 29271 defines a set of interaction between the integrated circuit card programming interfaces (ICC) and external applications, including through the use of multisectoral

With service. ICC's organizational and operational compliance with ISO /IEC 7816-4.

There interoperability requirements of ICC-related applications between GB/T 29271 and different application areas.

GB/T 29271 defines the interface to achieve the independence of interoperability between implementations.

GB/T 29271 defines in detail the service discovery mechanism, which includes a lookup method lookup method for client applications are available.

- ICC optional card-side applications;
- End of each card application information.

GB/T 29271 Part 1 provisions of architecture, which subsequent sections of this standard provides basic background information. Encourage the use of

GB/T 29271 developers read this Part 1 describes the properties. Technical details specified in Part 1 of the concept in other parts of the

Provided.

GB /Part 2 details the function and structure of information related T 29271, which can be used in Section 3 GB/T 29271 defined in

Implementation of the interface.

PART 3 details GB/T 29271 service access mechanism to be used by a client application initiates.

GB/T 29271 Part 4 credible mechanism and connecting mechanism between two adjacent components detailed in the communication stack.

GB/T 29271 part 5 test procedure described in detail.

Section 6 of GB/T 29271 authentication protocol to achieve interoperable registries procedures.

Part 3 for function normally exist outside of ICC, for Part 2 features normally present within the ICC in.

Identification cards - Integrated circuit card programming interfaces

Part 1. Architecture

1 Scope

GB/T 29271 in the provisions of this section.

- System structure and principle of operation;
- Capability discovery mechanism;
- Safety principles.

This section has nothing to do with the physical layer interface technology.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein

Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 16649.4-2010 Identification cards - Integrated circuit cards - Part 4. Structure for switching, security and command (ISO /IEC

7816-4.2005, IDT)

Part 15 ISO /IEC 7816-15 Identification cards - Integrated circuit card. password information application (Identificationcards-Integrated

circuitcards-Part 15. Cryptographicinformationapplication)

ISO /IEC 8825 Information technology - ASN.1 encoding rules

(Information technology-ASN.1 encoding rules)

ISO /IEC 24727-2 Identification cards - Integrated circuit card programming interfaces - Part 2. Generic card interface (Identification cards-

Integrated circuit card programming interfaces-Part 2. Generic card interface)

ISO /IEC 24727-3 Identification cards - Integrated circuit card programming interfaces - Part 3. Application Interface (Identification cards-

Integrated circuit card programming interfaces-Part 3. Application interface)

ISO /IEC 24727-4 Identification cards - Integrated circuit card programming interfaces - Part 4. Application Programming Interface (API) management [Identification

cards-Integrated circuit card programming interfaces-Part 4. Application programming interface (API)

administration]

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

Identification authentication

Assess the level of trust in the process of authentication or identification.

3.2

Authentication Protocol authentication protocol

Identification of the specific process.