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**China financial integrated circuit card specifications. Part 16: IC
card internet terminal specification
(English Translation)**

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Foreword

JR/T 0025 China financial integrated circuit card specifications is divided into the following parts.

- Part 1. Electronic purse / electronic deposit application card specification (abolished);
- Part 2. Electronic purse / electronic deposit application specification (abolished);
- Part 3. Specification on application independent ICC to terminal interface requirements;
- Part 4. Debit / Credit application overview;
- Part 5. Debit / Credit application card specification;
- Part 6. Debit / Credit application terminal specification;
- Part 7. Debit / Credit application security specification;
- Part 8. Contactless specification independent of application;
- Part 9. Electronic purse extended application guide;

- Part 10. Debit / Credit card personalization guide;
- Part 11. Contactless integrated circuit card communication specification;
- Part 12. Contactless integrated circuit card payment specification;
- Part 13. Low-value payment specifications based on debit / credit application;
- Part 14. Comprehensive application specification based on contactless low-value payment application;
- Part 15. Electronic cash dual-currency payment specification;
- Part 16. IC card internet terminal specification;
- Part 17. Enhanced debit / credit application security specification.

This Part is Part 16 of JR/T 0025.

This Part was drafted in accordance with the provisions given in GB/T 1.1-2009.

China financial integrated circuit card specifications -

Part 16. IC card internet terminal specification

1 Scope

This Part describes the requirements and regulations for IC card internet terminals in terms of hardware requirements, interface protocols, command sets, personalization and security systems.

This Part is applicable to the financial IC card internet terminal equipment defined conforming to the JR/T 0025 specification. Such equipment is mainly used in the departments (authorities) related to the application design, manufacturing, management and acceptance as well as the development, integration and maintenance of the application systems associated with the IC card internet terminal applications.

All the terminals mentioned in this Part, unless otherwise specified, refer to the IC card internet terminals.

This Part describes the rules of using IC card internet terminals on personal computers. For the rules of use in other application environments (such as

smart phones, tablets, etc.), REFER to the provisions of this Part.

2 Normative references

The following documents are essential to the application of this document. For dated references, only the editions with the dates indicated are applicable to this document. For undated references, only the latest editions (including all the amendments) are applicable to this document.

JR/T 0025.3 China financial integrated circuit card specifications - Part 3.

Specification on application independent ICC to terminal interface requirements

JR/T 0025.6 China financial integrated circuit card specifications - Part 6.

Debit / Credit application terminal specification

JR/T 0025.7 China financial integrated circuit card specifications - Part 7.

Debit / Credit application security specification

JR/T 0025.8 China financial integrated circuit card specifications - Part 8.

Contactless specification independent of application

JR/T 0025.17 China financial integrated circuit card specifications - Part 17.

Enhanced debit / credit application security specification

ISO/IEC 8859-1 ~ ISO/IEC 8859-10 Information technology - 8-bit single-byte coded graphic character sets

ISO/IEC 9797-1 Information technology - Security techniques - Message Authentication Codes (MACs) - Part 1. Mechanisms using a block cipher

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Application

Application protocols and related data sets between cards and terminals.

3.2 Asymmetric cryptographic technique

Cryptographic technique that uses two related transformations, a public transformation (defined by the public key) and a private transformation (defined by the private key). The two transformations have the property that, given the public transformation, it is computationally infeasible to derive the private transformation.

3.3 Authentication

Measures for conforming the identity claimed by an entity.

3.4 Certificate

Unforgeable data formed by the certification authority issuing the certificate using its private key to sign the entity's public key, identity information and other related information.

3.5 Certification authority

A trusted third party that certifies that the public key and other related information are associated with their owners, which is hereinafter referred to as CA certification center or CA center.

3.6 Certification authority root certificate

Unforgeable public key information of an entity signed by the certification authority.

3.26 Load

The process of increasing the EC balance in the card.

3.27 Record Protocol

It is based on a reliable transmission protocol for providing the application layer protocol with the support for basic functions such as data encapsulation, compression, encryption, etc.