SLOVENSKI STANDARD

oSIST ISO/IEC FDIS 7816-4:2004

01-november-2004

Identifikacijski dokumenti – Kartice z integriranim vezjem – 4. del: Organizacija, varovanje in ukazi za izmenjavo

Identification cards -- Integrated circuit cards -- Part 4: Organization, security and commands for interchange

Cartes d'identification -- Cartes à circuit intégré -- Partie 4: Organisation, sécurité et commandes pour les échanges

Ta slovenski standard je istoveten z: **ISO/IEC FDIS 7816-4:2004**

ICS:

35.240.15	Identifikacijske kartice in sorodne naprave	Identification cards and related devices

oSIST ISO/IEC FDIS 7816-4:2004 **en**

FINAL
DRAFT

INTERNATIONAL
STANDARD

**ISO/IEC
FDIS
7816-4**

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Secretariat: **ANSI**

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Identification cards — Integrated circuit cards —

Part 4:
Organization, security and commands for interchange

Cartes d'identification — Cartes à circuit intégré —

Partie 4: Organisation, sécurité et commandes pour les échanges

Please see the administrative notes on page iii

Reference number
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In accordance with the provisions of Council Resolution 21/1986, this document is **circulated in the English language only**.

Contents

Page

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

ISO/IEC 7816-4 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

This second edition cancels and replaces the first edition (ISO/IEC 7816-4:1995), and incorporates material extracted from ISO/IEC 7816-5:1994, ISO/IEC 7816-6:1996, ISO/IEC 7816-8:1999 and ISO/IEC 7816-9:2000. It also incorporates the Amendment ISO/IEC 7816-4:1995/Amd.1:1997.

In addition, material has been extracted from the first edition and moved to the third edition of ISO/IEC 7816-3, so that the transmission protocols T=0 and T=1 are now present only in ISO/IEC 7816-3, no longer in ISO/IEC 7816-4.

ISO/IEC 7816 consists of the following parts, under the general title *Identification cards — Integrated circuit cards*:

— *Part 1: Cards with contacts: Physical characteristics*

— *Part 2: Cards with contacts: Dimensions and location of the contacts*

— *Part 3: Cards with contacts: Electrical interface and transmission protocols*

— *Part 4: Organization, security and commands for interchange*

— *Part 5: Registration of application providers*

— *Part 6: Interindustry data elements for interchange*

— *Part 7: Interindustry commands for Structured Card Query Language (SCQL)*

— *Part 8: Commands for security operations*

— *Part 9: Commands for card management*

— *Part 10: Cards with contacts: Electronic signals and answer to reset for synchronous cards*

— *Part 11: Personal verification through biometric methods*

— *Part 12: Cards with contacts: USB electrical interface and operating procedures*

— *Part 15: Cryptographic information application*

Introduction

ISO/IEC 7816 is a series of standards specifying integrated circuit cards and the use of such cards for interchange. These cards are identification cards intended for information exchange negotiated between the outside world and the integrated circuit in the card. As a result of an information exchange, the card delivers information (computation result, stored data), and / or modifies its content (data storage, event memorization).

— Five parts are specific to cards with galvanic contacts and three of them specify electrical interfaces.

- ISO/IEC 7816-1 specifies physical characteristics for cards with contacts.
- ISO/IEC 7816-2 specifies dimensions and location of the contacts.
- ISO/IEC 7816-3 specifies electrical interface and transmission protocols for asynchronous cards.
- ISO/IEC 7816-10 specifies electrical interface and answer to reset for synchronous cards.
- ISO/IEC 7816-12 specifies electrical interface and operating procedures for USB cards.

— All the other parts are independent from the physical interface technology. They apply to cards accessed by contacts and / or by radio frequency.

- ISO/IEC 7816-4 specifies organization, security and commands for interchange.
- ISO/IEC 7816-5 specifies registration of application providers.
- ISO/IEC 7816-6 specifies interindustry data elements for interchange.
- ISO/IEC 7816-7 specifies commands for structured card query language.
- ISO/IEC 7816-8 specifies commands for security operations.
- ISO/IEC 7816-9 specifies commands for card management.
- ISO/IEC 7816-11 specifies personal verification through biometric methods.
- ISO/IEC 7816-15 specifies cryptographic information application.

ISO/IEC 10536 [13] specifies access by close coupling. ISO/IEC 14443 [15] and ISO/IEC 15693 [17] specify access by radio frequency. Such cards are also known as contactless cards.

ISO and IEC draw attention to the fact that it is claimed that compliance with this document may involve the use of the following patents and the foreign counterparts.

JPN 2033906, *Portable electronic device*

JPN 2557838, *Integrated circuit card*

JPN 2537199, *Integrated circuit card*

JPN 2856393, *Portable electronic device*

JPN 2137026, *Portable electronic device*

JPN 2831660, *Portable electronic device*

DE 198 55 596, *Portable microprocessor-assisted data carrier that can be used with or without contacts*

ISO and IEC take no position concerning the evidence, validity and scope of these patent rights.

The holders of these patent rights have assured ISO and IEC that they are willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applications throughout the world. In this respect,

