INTERNATIONAL STANDARD



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Identification cards — Financial transaction cards

iTeh STANDARD PREVIEW Cartes d'identification — Cartes de transactions financières (standards.iteh.ai)

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Reference number ISO/IEC 7813:1995(E)

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

International Standard ISO/IEC 7813 was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 17, Identification cards and related devices.

This fourth edition cancels and replaces IStheC Third1996 dition (ISO/IEC 7813:1990), of which it constitutes a technical revision // sist/eabb4bdb-29e8-481b-858b-6f77e4eabc93/iso-iec-7813-1995

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Introduction

This International Standard is one of a series of standards describing the parameters for identification cards and the use of such cards for international interchange.

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Identification cards — Financial transaction cards

1 Scope

This International Standard specifies the requirements for cards used in financial transactions. It takes into consideration both human and machine aspects and ARD PREVIEW states minimum requirements of conformity. It contains layout, recording techniques, Shumbering CLS systems, registration procedures, but not security requirements. ISO/IFC

ISO/IEC 10373 specifies the test procedures used to the test procedures to the test procedures used to the test procedures used to the test procedures to the test procedur check cards against the parameters specified in this International Standard.

This International Standard specifies the requirements for cards used for identification. It takes into consideration both human and machine aspects and states minimum requirements.

NOTE — Numeric values in the SI and/or Imperial measurement system in this International Standard may have been rounded off and therefore are consistent with, but not exactly equal to, each other. Either system may be used, but the two should not be intermixed or reconverted. The original design was made using the Imperial measurement system.

2 Conformance

An identification card is in conformance with this International Standard if it meets all mandatory requirements specified herein.

A prerequisite for conformance with this International Standard is conformance with ISO/IEC 7810, ISO/IEC 7811-1, ISO/IEC 7811-2, ISO/IEC 7811-3, ISO/IEC 7811-4, ISO/IEC 7811-5, ISO/IEC 7816-1, ISO/IEC 7816-2, and ISO/IEC 7816-3 as specified in clauses 5 to 9.

3 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/IEC 3166:1993, Codes for the representation of names of countries.

ISO/IEC 4217:1990, Codes for the representation of currencies and funds.

ISO/IEC 4909:1987, Bank cards - Magnetic stripe data content for track 3.

ISO/IEC 7810:1995, Identification cards — Physical characteristics.

ISO/IEC 7811-1:1995, Identification cards - Recording technique — Part 1: Embossing.

ISO/IEC 7811-2:1995, Identification cards --- Recording technique — Part 2: Magnetic stripe.

ISO/IEC 7811-3:1995, Identification cards — Recording technique — Part 3: Location of embossed characters on ID-1 cards.

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ISO/IEC 7811-4:1995, Identification cards - Recording technique — Part 4: Location of read-only magnetic tracks — Tracks 1 and 2.

ISO/IEC 7811-5:1995. Identification cards - Recording technique — Part 5: Location of read-write magnetic track — Track 3.

ISO/IEC 7812-1:1993, Identification cards --- Identification of issuers — Part 1: Numbering system.

ISO/IEC 7816-1:1987. Identification cards --- Integrated circuit(s) cards with contacts - Part 1: Physical characteristics.

ISO/IEC 7816-2:1988, Identification cards - Integrated circuit(s) cards with contacts — Part 2: Dimension and location of the contacts.

ISO/IEC 7816-3:1989. Identification cards - Integrated circuit(s) cards with contacts — Part 3: Electronic signals and transmission protocols.

ISO 9992-1:1990, Financial transaction cards ----Messages between the integrated circuit card and the card accepting device — Part 1: Concepts and structures.

methods.

6 Embossing, magnetic stripe and contact areas

The following areas are defined for various media to be selected for the application concerned. One or more areas may be used but must not be relocated.

6.1 Embossing area

The embossing area shall be located on the front of the card as specified in ISO/IEC 7811-3.

6.2 Magnetic stripe area

The magnetic stripe area shall be located on the back of the card as specified in ISO/IEC 7811-2. ISO/IEC 7811-4 and ISO/IEC 7811-5.

6.3 IC contact area

The contacts shall be located as specified in ISO/IEC 7816-2.

ISO/IEC 10373:1993, Identification Cards Test

(standarcembossing shal) be as specified in ISO/IEC 7811-1 and ISO/IEC 7811-3.

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4 Definitions

For the purposes of this International Standard the following definition applies.

4.1 financial transaction card: Card used to identify the card issuer and card holder to aid financial transactions and to provide input data for such transactions.

5 Card characteristics

5.1 The physical characteristics shall conform to ISO/IEC 7810 and ISO/IEC 7816-1.

5.2 Flammability: Financial transaction cards shall be self-extinguishable within 5 seconds and shall not burn more than 25 mm (0,98 in) after removal from flame.

5.3 Dimensions: The dimensions shall conform to those specified for card type ID-1 in ISO/IEC 7810.

8 Magnetic stripe

The magnetic stripe shall conform to ISO/IEC 7811-2. ISO/IEC 7811-4 and ISO/IEC 7811-5.

9 IC card

The IC card shall conform to ISO/IEC 7810. ISO/IEC 7816-1, ISO/IEC 7816-2, and ISO/IEC 7816-3.

10 Magnetic stripe information content, formats

Track 1 and/or track 2 may be used with the following structures.

10.1 Track 1 structure

10.1.1 Structure A

Reserved for proprietary use of card issuer.

Position 1 signifies a) the extent of interchange

10.1.2 Structure B

10.1				uon i signines a) the i		
STX FC PAN FS	Format code Identification number	position 0/5 B (position 2/2) up to 19 digits	whe tech	hitted (international, nation ther additional read faciliti nology other than magne able on the card.	es, using an alternativ	
CC	Separator	position 3/14				
	Country code (see 10.1.2.2)	3 digits		tion 2 signifies the au		
NM	Name (see 10.1.2.3)	2 to 26 characters		ator attached to this card		
	surname		used	I by the issuer or its agent.		
	surname separator	/(0/15)	Posit	tion 3 signifies a) the range	of convisor available t	
	first name or initial	,(0, 10)	thie	card; and b) details of	the PIN requirement	
	space (when required)	0/0		used by the card issuer.	the Fin requirement	
	(see 10.1.2.4)	0,0	impe	sed by the card issuer.		
	middle name or initial		Posit	tions 2 and 3 are associ	ated with internation	
	period	.(0/14)	inter	Positions 2 and 3 are associated with international interchange — i.e. those listed applying specifically t		
	(when followed by title)		servi	ice codes between 10	0 through 299 Th	
	title (when used)			ning attached to the values		
FS	Separator	position 3/14		ther service code values i		
ED	Expiration date	4 digits or		International Standard.		
	(see 10.1.2.5)	position 3/14				
SC	Service code	3 digits or				
	(see 10.1.2.6)	position 3/14				
DD	Discretionary data	balance of				
		characters	10.2	Track 2 structure		
	End sentinel	position 1/15				
LRC	Longitudinal redundancy	1 character	STX		BCD 11	
	check	Teh STANDAR	PAN	Identification number	up to 19 digits	
			FS	Separator	BCD 13	
Max	imum record length	79 charactersandards	s.q¢e	Country code (see 10.2.2)	3 digits	
			ED	Expiration date	4 digits or	
10.1.	2.1 Characters shall b	be as described in a	<u>13:1995</u>	(see 10.2.3)	BCD 13	
ISO/I	EC 7811-2.	be as described in //standards.iten.avcatalog/standard	s/scea	bService ⁹ code ^{1b-858b-}	3 digits or	
		6f77e4eabc93/iso-i	ec-781: DD	³ (see 10.2.4)	BCD 13	
10.1.2.2 When the primary account number commences with the major industry identifier "5" followed by the digit "9", the encoding of the numeric country code (as specified in ISO 3166) in this position				Discretionary data	balance of	
					available digits	
				End sentinel	BCD 15	
				Longitudinal redundancy		
is ma	andatory. In all other situ	ations, the name shall		check	1 digit	
imme	ediately follow the separa	ator which terminates	N 4 - ·	and the second large of		
AL			iviaxi	mum record length	40 diaits	

10.1.2.3 Name: Minimum encoded data shall be a single alpha character (as surname) and the surname separator.

10.1.2.4 Space: The space character is required to separate the logical elements of the name field other than the surname. The separator terminating the name field should be encoded following the last logical element of the name field. If only the surname is encoded, it will follow the surname separator.

10.1.2.5 Expiration date: Format YYMM.

the primary account number.

10.1.2.6 Service code: A three-digit code assigned by the ISO technical body responsible for this International Standard; currently agreed assignments being as given in table 1.

10.2.1 BCD (binary coded digits) are as described in ISO/IEC 7811-2.

40 digits

10.2.2 When the primary account number commences with the major industry identifier "5" followed by the digit "9", the encoding of the numeric country code (as specified in ISO 3166) in this position is mandatory. In all other situations, the expiry date field shall immediately follow the separator which terminates the primary account number.

10.2.3 Expiration date: Format YYMM.

Maximum record length

10.2.4 Service code: The three-digit code specified in 10.1.2.6 shall be available for use in this structure.

Values	Position 1	Position 2	Position 3				
0		Normal limit indicator (4)	No restrictions / PIN required				
1	International (1)	Low limit indicator	No restrictions				
2	International / alternative Positive authorization is mandatory		Goods and services only				
3		High limit indicator	Cash only / PIN required				
4		Normally positive authorization but special back-up arrangements	Cash only				
5	National (2)		Goods and services only / PIN required				
6	National / alternative technology (2)						
7	Private (3)						
8							
9	Test						
Notes rela	ating to position 1						
(1)	1 and $2 =$ available for international interchange						
(2)	5 and 6 = available for interchange only in country of issue (although specific bilateral agreements between issuers may override this restriction)						
(3)	7 = not available for general interchange (although specific bilateral agreements between issuers may override this restriction)						
Note relat	Note relating to position 2 ISO/IEC 7813:1995						
(4)	0 = shall be used where the issuer does not wish to assign a specific value to the authorization processing indicator 6f77e4eabc93/iso-iec-7813-1995						

Table 1 - Service Code Assignments

10.3 Track 3 structure

The structure and information content of track 3 is described in ISO 4909.

12 IC card structure and information content

12.1 Interindustry IC card structure and information content

Structure and information content of IC card is defined in ISO/IEC 7816

11 Numbering system

The numbering system for issuer identifiers is described in ISO/IEC 7812.

12.2 Financial IC card information content

Financial information content of IC card is defined in ISO 9992.

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