



SLOVENSKI STANDARD SIST ISO/IEC 4909:2021

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Identifikacijski dokumenti - Finančno transakcijske kartice - Podatkovna vsebina tretje sledi na magnetnem zapisu

Identification cards -- Financial transaction cards -- Magnetic stripe data content for track 3

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Cartes d'identification -- Cartes de transactions financières -- Contenu des données de plage magnétique pour la piste 3

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INTERNATIONAL
STANDARD

ISO/IEC
4909

First edition
2006-07-01

**Identification cards — Financial
transaction cards — Magnetic stripe data
content for track 3**

*Cartes d'identification — Cartes de transactions financières — Contenu
des données de plage magnétique pour la piste 3*

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 4909 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

This first edition of ISO/IEC 4909 cancels and replaces the third edition of ISO 4909:2000, which has been technically revised.

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Introduction

This International Standard recognizes the need for formats of track 3 which can be used independently of, or in conjunction with, track 2 as defined in ISO/IEC 7813. This approach is intended to permit the greatest degree of flexibility within the financial community in facilitating international interchange.

Using track 3 in conjunction with track 2 is a mode of operation in both on-line and off-line interchange environments. This mode of operation requires that the original encoded data on track 2 be read; the data on track 3 be read; and, if update is required, all the data on track 3 be rewritten.

Independent use of track 3 is an alternative mode of operation permitting both on-line interchange and off-line interchange based on mutual agreement between interested parties. It requires reading only of the data on track 3 and, if update is required, the rewriting of all the data on track 3.

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Identification cards — Financial transaction cards — Magnetic stripe data content for track 3

1 Scope

This International Standard establishes specifications for financial transaction cards using track 3 and is intended to permit interchange based on the use of magnetic stripe encoded information. It specifies the data content and physical location of read/write information on track 3 and is to be used in conjunction with the relevant parts of ISO/IEC 7811 and ISO/IEC 7812.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4217, *Codes for the representation of currencies and funds*

ISO/IEC 7810, *Identification cards — Physical characteristics*

ISO/IEC 7811 (all parts), *Identification cards — Recording technique*

ISO/IEC 7812 (all parts), *Identification cards — Identification of issuers*

ISO 9564-2: *Banking — Personal Identification Number management and security — Part 2: Approved algorithms for PIN encipherment*

3 Terms and definitions

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

3.1

card

financial transaction card generally used to identify parties to a financial transaction, and to provide input data for a transaction

3.2

check digit

check digit character as described in ISO/IEC 7812

3.3

cycle period

fixed or predetermined period of time qualifying the validity of certain transactions

3.4

issuer identification number

IIN

major industry identifier and issuer identifier as described in ISO/IEC 7812

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- 3.5 individual account identification**
individual account identification as described in ISO/IEC 7812
- 3.6 personal identification number**
PIN
code or password that the cardholder possesses for verification of identity
- 3.7 primary account number**
PAN
number containing a maximum of 19 digits which serves to identify the card issuer and the card holder, consisting of the IIN, the individual account identification provided by the issuer and a check digit derived by using the Luhn Formula (see ISO/IEC 7812)
- 3.8 SAN-1**
first optional subsidiary account identification held in addition to PAN (see 8.21)
- 3.9 SAN-2**
second optional subsidiary account identification held in addition to PAN and SAN-1 (see 8.23)

4 Physical characteristics of the card

The card shall conform in all respects to the specifications in ISO/IEC 7810.

5 Location and dimensions of embossed data

If present, all embossed data on the card shall conform to the specifications in ISO/IEC 7811-1.

6 Physical and performance characteristics of the magnetic material**6.1 Physical characteristics**

The physical characteristics and location of the magnetic material shall conform in all respects to the requirements of ISO/IEC 7811-2 and ISO/IEC 7811-6.

6.2 Performance characteristics

The performance characteristics of the magnetic materials for the card shall conform in all respects to the specifications contained in ISO/IEC 7811-2 and ISO/IEC 7811-6.

7 Encoding specifications

Encoding specifications shall conform in all respects to the requirements of ISO/IEC 7811-2 and ISO/IEC 7811-6.

8 Data content of track 3

The sequence and length of data fields shall be as shown in Table 1 or 2 with details as follows. The coding character set shall be 5 bit numeric as defined in ISO/IEC 7811.

Table 1 — Track 3 information layout for format code 01

No.	Field	M = Mandatory O = Optional	D = Dynamic S = Static (See NOTE 1)	F = Fixed V = Variable	Length
	Content				
1	Start sentinel	M	S	F	1
2	Format code	M	S	F	2
3	Primary account number: PAN	O	S	V	Max. 19
4	Field separator	M	S	F	1
5	Country code	M	S	F	1
6	Currency	M	S	F	3
7	Currency exponent	M	S	F	1
8	Amount authorized per cycle period	M	S	F	4
9	Amount remaining this cycle	M	D	F	4
10	Cycle begin	M	D	F	4
11	Cycle length	M	S	F	2
12	Retry count	M	D	F	1
13	PINPARM	M	S	F	6
14	Interchange control	M	S	F	1
15	Type of account and service restriction (PAN)	M	S	F	2
16	TA and SR (SAN-1)	M	S	F	2
17	TA and SR (SAN-2)	M	S	F	2
18	Expiry date	M	S	F	4
19	Card sequence number	M	S	F	1
20	Card security number	M	D	F	9
21	SAN -1	O	S	V	See NOTE 2
22	Field separator	M	S	F	1
23	SAN-2	O	S	V	See NOTE 2
24	Field separator	M	S	F	1
25	Relay marker	M	S	F	1
26	CCD	M	D	F	6
27	Additional data	O	D	V	See NOTE 2
28	End sentinel	M	S	F	1
29	LRC	M	D	F	1
Maximum					107
NOTE 1	Dynamic fields shall be updated as appropriate by interchange partners. Static fields shall be updated by the card issuer only.				
NOTE 2	The total number of characters in track 3 shall not exceed 107.				
NOTE 3	If not used, replace by one field separator.				