

# International Standard



# 7812

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

## Identification cards — Numbering system and registration procedure for issuer identifiers

*Cartes d'identification — Système de numérotation et procédure d'enregistrement pour les identificateurs d'émetteur*

First edition — 1985-12-15

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UDC 681.178.5

Ref. No. ISO 7812-1985 (E)

**Descriptors:** information interchange, identity cards, number representation, registration.

Price based on 7 pages

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7812 was prepared by Technical Committee ISO/TC 97, *Information processing systems*.

The following International Standards cancel and replace ISO 2894 and ISO 3554, of which they constitute a technical revision:

ISO 7810, ISO 7811/1, ISO 7811/2, ISO 7811/3, ISO 7811/4, ISO 7811/5, ISO 7812, ISO 7813.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

# Identification cards — Numbering system and registration procedure for issuer identifiers

## 0 Introduction

This International Standard is one of a series of standards describing the parameters for identification cards as defined in clause 3 below and the use of such cards for international interchange.

## 1 Scope and field of application

This International Standard specifies a numbering system for the identification of issuers of identification cards. It also specifies the procedures to be used for the registration and publication of issuer identification numbers.

## 2 References

- ISO 3166, *Codes for the representation of names of countries.*
- ISO 4909, *Bank cards — Magnetic stripe data content for track 3.*
- ISO 7810, *Identification cards — Physical characteristics.*
- ISO 7811/3, *Identification cards — Recording technique — Part 3: Location of embossed characters on ID-1 cards.*

## 3 Definitions

For the purpose of this International Standard, the definition of "identification card" given in ISO 7810 and the following definitions apply.

**3.1 identification number:** The number that identifies the cardholder.

NOTE — Equivalent to PAN — Primary Account Number as defined in ISO 4909.

**3.2 individual account identification:** Personal or individual number assigned by the card issuing institution for purposes of identifying an individual account.

**3.3 issuer identification number:** The number that identifies the major industry and the card issuer and which forms the first part of the identification number.

**3.4 issuer identifier:** The number that identifies the card issuing institution within its industry.

**3.5 major industry identifier (MII):** The number that identifies the industry of the card issuer.

## 4 Numbering system

The identification number on an identification card is composed of three main components as shown in the figure. This International Standard is concerned primarily with the first of these, that is, the issuer identification number.

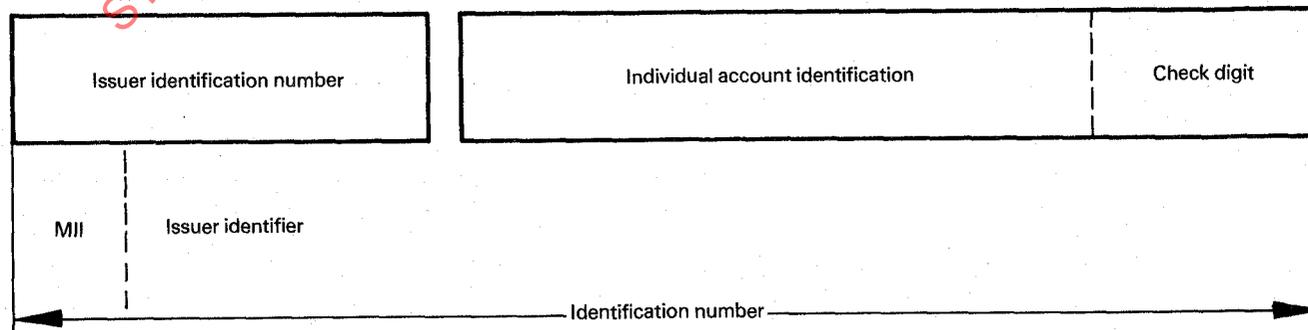


Figure — Composition of the identification number on identification cards

**4.1 Issuer identification number**

**4.1.1 Major industry identifier**

There are ten single-digit major industry identifiers as follows:

- 0 — reserved for future assignment
- 1 — airlines
- 2 — airlines and future assignment
- 3 — travel and entertainment
- 4 — banking/financial
- 5 — banking/financial
- 6 — merchandizing and banking
- 7 — petroleum
- 8 — reserved for future assignment
- 9 — for assignment by national standards bodies

**Major industry identifier "9":** Major industry identifier "9" has been assigned to national standards bodies for national use. In the interests of international conformity, national standards bodies are recommended to assign numbers in accordance with the recommendations given in annex B.

The numeric country code of the country issuing the issuer identifier shall immediately follow MII 9 and precede the issuer identifier.

**4.1.2 Issuer identifier**

The issuer identifier is of a fixed length, the length being pre-determined by the MII, and, in the case of MII 5, by the first digit of the issuer identifier. Where this first digit is 9 (i.e. 59 numbers) the issuer identifier is variable in length as defined in ISO 4909. Fixed lengths are as given in the table.

**Table — Issuer identification number format**

| MI I | Issuer identifier   |
|------|---|
| 0    | Reserved for future use   |
| 1    | XXX   |
| 2    | XXX (airlines)  |
| 2    | XXXXX (other)   |
| 3    | XXXXX   |
| 4    | XXXXX   |
| 5    | 0XXXX   |
| 5    | 1X  |
| 5    | 2XX   |
| 5    | 3XXX  |
| 5    | 4XXXX   |
| 5    | 5XXXX   |
| 5    | 6XXXX   |
| 5    | 7XXXX   |
| 5    | 8XXXX   |
| 5    | 9 (see 4.2.2)   |
| 6    | XXXXX   |
| 7    | XXXXX   |
| 8    | Reserved for future use   |
| 9    | CCC (see note 2). Refer to the appropriate national standards body. |

NOTES

1 As an aid to human readability it is recommended that a blank space be used between the issuer identifier and the individual account identification on all printed and/or embossed formats.

2 Where MII 9 is used, digits 2 to 4 identify the country of the issuing institution, using the numeric code specified in ISO 3166.

**4.2 Individual account identification**

**4.2.1 General**

The individual account identification shall be assigned by the card issuing institution in the remaining positions of the identification number, except for the last position which shall be reserved for a check digit (see 4.4).

**4.2.2 Issuer identification numbers beginning with "59"**

Issuer identification numbers beginning with "59" are those issued by financial institutions and not by the registration authority (see 5.3). The issuer identifier is the national routing number (see ISO 4909). A numeric country code field (see ISO 3166) shall also be present in the data format. More details are given in annex A.

**4.3 Check digit**

The individual account identification is followed by a check digit character, which is calculated on all the preceding digits of the identification number including the MII. This character is computed according to the Luhn formula for modulus 10 check-digit (see annex C).

**5 Registration and publication of issuer identification numbers**

**5.1 Application for assignment of issuer identification numbers**

A named and identified card issuer may apply to its national standards body for the assignment of an issuer identification number using the form shown in annex D. In the absence of a national standards body, the application shall be made to the secretariat of the ISO technical body responsible for this International Standard. The national standards body (or the secretariat of the ISO technical body responsible for this International Standard as appropriate), then acts as the "sponsoring authority" (see 5.2) in respect of the application.

**5.2 Sponsoring authorities**

**5.2.1** Application for the assignment of issuer identification numbers may be forwarded to the registration authority (see 5.3) by the following bodies:

- a) any member body of ISO;
- b) the ISO technical body responsible for this International Standard;
- c) any group within b) appointed for purposes concerned with the identification card numbering system.

**5.2.2 The responsibilities of the sponsoring authorities shall be**

- a) to receive applications for issuer identifiers from within their countries or areas of responsibility;
- b) to forward to the registration authority those requests for up to two issuer identifiers which it is satisfied will be used for the purposes described in this International Standard;
- c) to submit requests for more than two identifiers, or any requests of an unusual nature, to the secretariat of the ISO technical body responsible for this International Standard.

**5.3 The registration authority**

For the purpose of this International Standard and according to the rules for the designation and operation of registration authorities in the ISO Directives, the ISO Council has designated the American Bankers Association to act as registration authority.

With regard to the initial assignment of numbers, changes and deletions of numbers and subsequent additions to the register, the responsibilities of the registration authority shall be

- a) to allocate one number (or two) as required for immediate use and to notify the sponsoring authority as to the disposition of the application;

b) applications for numbers in excess of two, whether for immediate use, or for reservation, shall be reviewed by the ISO technical body responsible for this International Standard or by a body delegated to act on its behalf;

c) to maintain a register of the numbers assigned to card issuers. A copy of this register shall be available from the registration authority, at cost. Copies of the register shall normally be provided in the form of a microfiche, updated as required, but not more often than once a quarter;

d) to submit annually, to the secretariat of the ISO technical body responsible for this International Standard, a copy of the register.

**5.4 Registration Management Group (RMG)**

A group shall be established to form the Registration Management Group (RMG).

The responsibilities of the Registration Management Group shall be as resolved by the ISO technical body responsible for this International Standard.

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## Annex A

### Identification numbers beginning with "59"

(This annex does not form part of the standard.)

Identification numbers beginning with "59" are those issued by financial institutions whose issuer identification is not one assigned by the registration authority. The format for a "59" identification number is described in ISO 4909. It is included in this annex for information.

|                                   |                |                      |
|-----------------------------------|----------------|----------------------|
| Major industry identifier "59"    |                | 2 digits             |
| Issuer identifier                 | up to          | 8 digits             |
| Field separator                   |                | 1 character (BCD 13) |
| Individual account identification | up to          | 23 digits            |
| Check digit                       |                | 1 digit              |
|                                   | maximum length | 28 characters        |

The numeric code of the country to which the financial institution belongs (see ISO 3166) shall be included in the data field following a "59" number. This field should immediately follow the identification number, and be separated from it by a field separator (BCD 13).

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## Annex B

### National numbering systems for identification cards

(This annex does not form part of the standard.)

#### B.1 Introduction

Major industry identifier "9" has been assigned for use by national standards bodies in order to establish national numbering systems for identification cards.

#### B.2 Operation of national numbering systems

National standards bodies are advised to establish rules by means of national standards or other methods, for identifying card issuers and individual card holders (or accounts) in a national numbering system (see 4.2.2). They are also recommended to make arrangements for the administration of the system, including the procedures to be adopted for card issuers. When the card issuers apply for and are assigned issuer identifiers in accordance with the rules, and the maintenance of a register of assigned issuer identification numbers (copies of which should be supplied at regular intervals to the registration authority at no cost). To this end, they may wish to appoint a responsible organization to act as their agents in the administration and maintenance of the system within their countries.

#### B.3 Contact with the registration authority

National standards bodies that intend to set up national numbering systems for identification cards are asked to notify the registration authority accordingly and to supply that authority with details of the national procedures for the assignment of numbers, the method used to identify issuers, and the name of the organization administering the system.

NOTE — Where no national standards body exists, or if the national standards body is unable or unwilling to establish a national numbering system, card issuers in that country may apply to the secretariat of the ISO technical body responsible for this International Standard for assistance in finding a national standards body from amongst its member bodies to volunteer to support those user needs.

#### B.4 Role of registration management group

The registration management group in the ISO technical body responsible for this International Standard shall, on request, provide advice and counsel to any national standards body on the national numbering system.