



SLOVENSKI STANDARD

SIST EN 1038:1998

01-junij-1998

Identification card systems - Telecommunication applications - Integrated circuit (s) card payphone

Identification card systems - Telecommunication applications - Integrated circuit(s) card payphone

Identifikationskartensysteme - Telekommunikationsanwendungen - Telefone mit Bezahlungsfunktion mittels Chipkarten

Systemes de cartes d'identification - Applications pour les télécommunications - Publiphone a carte a circuit intégré

STANDARD PREVIEW
(standards.itech.ai)
<https://standards.itech.ai/catalog/standards/sist/3dddff-c144-477c-bbf3-5c3e553e9536/sist-en-1038-1998>

Ta slovenski standard je istoveten z: **EN 1038:1995**

ICS:

35.240.15	Identifikacijske kartice in sorodne naprave	Identification cards and related devices
-----------	---	--

SIST EN 1038:1998

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 1038:1998

<https://standards.iteh.ai/catalog/standards/sist/3dddf1ff-c144-477c-bbf3-5c3e553e9536/sist-en-1038-1998>

EUROPEAN STANDARD

EN 1038

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1995

ICS 33.120.00; 35.240.60

Descriptors: telecommunications, IC cards, IC card payphone, characteristics, utilization, specifications

English version

Identification card systems - Telecommunication applications - Integrated circuit(s) card payphone

Systemes de cartes d'identification
Applications pour les telecommunications -
Publiphone à carte à circuit intégré

Identifikationskartensysteme -
Telekommunikationsanwendungen - Telefone mit
Bezahlfunktion mittels Chipkarten

(standards.iteh.ai)

SIST EN 1038:1998

<https://standards.iteh.ai/catalog/standards/sist/3dddff-c144-477c-bb3-5c3e553e9536/sist-en-1038-1998>

This European Standard was approved by CEN on 1995-10-04. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

© 1995

All rights of reproduction and communication in any form and by any means reserved in all countries to CEN and its members.

Ref. No. EN 1038:1995 E

Contents

Foreword	4
1 Scope	5
2 Normative references	5
3 Definitions and abbreviations	6
3.1 Definitions	6
3.2 Abbreviations	7
4 Application independent requirements	7
4.1 Physical requirements for the cardphone	7
4.2 Electronic signals and transmission protocols	7
4.3 Description of commands supported by the cardphone	8
5 Functional requirements for a cardphone	8
5.1 Environmental requirements	8
5.2 Card acceptance and reading	8
5.3 Card authentication and card holder verification (CHV)	8
5.4 Secure information transfer	8
5.5 User interface	8
5.5.1 Language for display messages	9
5.5.2 User guidance and error handling	9
5.5.3 Pictograms	9
5.5.4 Audio messages	9
5.6 Basic user operations	9
5.6.1 Removal of the card	9
5.6.2 Escape possibility	9
5.6.3 CHV-entry	10
5.6.4 CHV-change	10
5.6.5 Language choice/change	10
5.6.6 Choice of payment	10
5.7 Call records	10
5.8 Free calls and emergency calls	10
5.9 Telediagnosis, audit and statistics	10
6 General payphone concepts	11
6.1 General concepts	11
6.1.1 The external world in control	11
6.1.2 Recognition and selection applications	11
6.1.3 Application management	12
6.2 Relationship between entities	12
6.3 Security provisions	12
6.3.1 Security mechanisms to be used	13
6.3.2 The security module (SM)	13
6.4 Scenarios at the card-external world interface	15
7 Operating sequence	15
7.1 Go off-hook	15
7.2 Insertion of the card	15
7.3 Card validation	15
7.4 Select applications	15
7.4.1 Selection of a payment method	15
7.4.2 Selection of telecommunication features	16
7.5 Dial number	16
7.6 Conversation	16
7.7 Follow-on call	16
7.8 Termination of the call	16

7.9	Retrieval of the card	17
8	Applications used in the payphone application	17
8.1	Payment methods	17
8.2	Telecommunication features	17

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 1038:1998

<https://standards.iteh.ai/catalog/standards/sist/3ddd1ff-c144-477c-bbf3-5c3e553e9536/sist-en-1038-1998>

Foreword

This European Standard was prepared by ETSI STC TE9 and adopted by the Technical Committee CEN/TC 224 "Machine readable cards, related device interfaces and operations" the secretariat of which is held by AfNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 1996, and conflicting national standards shall be withdrawn at the latest by May 1996.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard : Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 1038:1998

<https://standards.iteh.ai/catalog/standards/sist/3dddf1ff-c144-477c-bbf3-5c3e553e9536/sist-en-1038-1998>

1 Scope

This European Standard specifies the application dependent, IC card related characteristics for a payphone application. This European Standard does not define the application independent characteristics. They are defined and described in EN 726-3 and EN 726-4.

This European Standard defines the operating procedures and the minimal cardphone requirements for the card related part of the payphone application. These will :

- simplify customer use through a common sequence ;
- ensure the inter-European use of IC cards containing the payphone related applications.

For this purpose, this Standard describes :

- how to ensure, through the payphone application, the entitlement to the invocation of telecommunication features and payment methods ;
- how the payphone application detects which telecommunication features and payment methods are offered by the card ;
- how the payphone application, or the user through the cardphone, can select the different telecommunication features and payment methods offered by the card ;
- the relation to the security module through the payphone ;
- payphone application concepts ;
- the payphone function, only in the sense of voice telephony.

<https://standards.iteh.ai/catalog/standards/sist/3dddff-c144-477c-bb3-5c3e553e9536/sist-en-1038-1998>

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications listed hereafter. For dated references, subsequent amendments to, or revisions of any of these publications apply to this European Standard only when incorporated in it by amendments or revision. For undated references the latest edition of the publication referred to applies.

EN 726-1	Identification card systems - Telecommunications integrated circuit(s) cards and terminals - Part 1 : System overview
EN 726-2	Identification card systems - Telecommunications integrated circuit(s) cards and terminals - Part 2 : Security framework
EN 726-3	Identification card systems - Telecommunications integrated circuit(s) cards and terminals - Part 3 : Application independent card requirements

EN 726-4:1995		Identification card systems - Telecommunications integrated circuit(s) cards and terminals - Part 4 : Application independent card related terminal requirements.
prEN 726-5:1995		Identification card systems - Telecommunications integrated circuit(s) cards and terminals - Part 5 : Payment methods.
EN 726-6:1995		Identification card systems - Telecommunications integrated circuit(s) cards and terminals - Part 6 : Telecommunication features
prEN 726-7		Identification card systems - Telecommunications integrated circuit(s) cards and terminals - Part 7 : Security module.
ISO/IEC 7816-5		Identification cards - Integrated circuit(s) cards with contacts - Part 5 : Numbering system and registration procedure for application identifiers
CCITT Recommendation E.113	1988	Validation procedures for an automated international telephone credit card system
CCITT Recommendation E.118	1988	Automated international telephone credit card system
CCITT Recommendation E.121	1988	Pictograms and symbols to assist users of the telephone service
CCITT Recommendation E.133	1988	Operating procedures for cardphones

<https://standards.iteh.ai/catalog/standards/sist/3ddd11f1-c144-477c-b6b3-5c3e553e9536/sist-en-1038-1998>

3 Definitions and abbreviations

3.1 Definitions

For the purpose of this Standard, the following definitions apply :

3.1.1 application: An application consists of a set of security mechanisms, files, data, protocols (excluding transmission protocols), which are located and used in the IC card and outside the IC card (external application).

3.1.2 cardphone: A cardphone is a payphone that accepts IC cards as a means of payment.

3.1.3 external application: Entity, located in the external world, which communicates with the related Card Application during the session.

3.1.4 external world: All application related entities outside the card.

3.1.5 payphone: A payphone is a terminal allowing access to telecommunication services after the insertion of the adequate means of payment. The basic service is to allow outgoing telephone voice calls whether or not it is able to receive incoming voice calls. Outgoing voice calls to certain services may be permitted without payment.

3.2 Abbreviations

For the purpose of this Standard, the following abbreviations apply :

ATR Answer To Reset

ASC Application Specific Command set

CHV Card Holder Verification

F Dedicated File

EF Elementary File

IC Integrated Circuit(s)

IFD Interface Device

MF Master File

PIN Personal Identification Number

SM Security Module

ITeH STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 1038:1998

<https://standards.iteh.ai/catalog/standards/sist/3ddd1ff-c144-477c-bb3-5c3e553e9536/sist-en-1038-1998>

4 Application independent requirements

4.1 Physical requirements for the cardphone

Refer to clause 4 of EN 726-4:1994 for the following items :

- mechanical interface between Interface Device (IFD) and Integrated Circuit (IC) Card ;
- contacting of the IC card ;
- user/cardphone interface ;
- magnetic stripe card reader ;
- card holder verification module ;
- acceptance of memory cards.

4.2 Electronic signals and transmission protocols

Refer to clause 5 of EN 726-4:1994 for the requirements for the electronic signals and the asynchronous transmission protocols between the IFD and the IC card.