Vöötkodeerimine. Struktureeritud andmefailid

Bar coding - Structured Data Files



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Y.	This Estonian standard EVS-EN 12403:2000 consists of the English text of the European standard EN
teksti.	12403:1998.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks .	Date of Availability of the European standard is .
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 35.040

Võtmesõnad: bar codes, character recognition, data, data processing, dimensions, files, optical recognition,

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega: Aru 10, 10317 Tallinn, Eesti; www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation: Aru 10, 10317 Tallinn, Estonia; www.evs.ee; phone 605 5050; e-mail info@evs.ee

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 12403

March 1998

Ref. No. EN 12403: 1998 E

ICS 35.040

Descriptors: Bar coding, data files.

English version

Bar coding Structured data files

Code à barres – Fichiers structurés de données

Strichcodierung – Strukturierte Datensätze

This European Standard was approved by CEN on 1998-02-28.

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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

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

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

CONTENTS

	rag	C
Fo	preword	3
Int	troduction	3
1	Scope	1
'		-
2	Normative references	4
3	3.1 Structured data file	4
	3.3 Data type indicator	4
4	Data format 4.1 Overall structure 4.2 Message header 4.3 Format header 4.4 Data block 4.5 Format trailer 4.6 Message trailer	5 5
5	Character set	6
6	Symbology	6
An	nnex A (informative) Examples of messages	7
	nnex B (informative) Format headers	7
An		

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 225 "Bar coding", the secretariat of which is held by NNI.

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 September 1998, and conflicting national standards shall be withdrawn at the latest by September 1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

The use of bar codes to carry information that can be read into computer systems reliably, quickly, and cheaply is now well established. Often bar codes are printed on labels attached to an item to which they refer, so that the information is always available with the item to anyone with standard reading equipment. This technique has been well proven in a number of industries such as retail, health care, steel and automotive.

Because of the success of bar codes used in this way, the demand exists to carry more machine readable data with the item, to provide information related to topics such as identification, traceability, safety, addressing, during manufacture, transportation, service and other processes. Often, this information has already been prepared by the supplier of the item and is sent to the receiver of the item electronically using EDI (Electronic Data Interchange) standards. However, other parties involved in the transaction, for example carriers, may also want to receive some or all of this information.

This standard defines how several items of structured information should be represented as one machine readable message which can be printed in one of the two-dimensional symbologies specified in European Standards, and how the message should be interpreted by anyone reading it.

Page 4

EN 12403: 1998

1 Scope

This European Standard specifies a method of representing several items of structured information as an encoded and printed message using a two-dimensional symbology.

2 Normative references

This European Standard incorporates by dated or undated references provisions from other publications. These normative references are cited at appropriate places in the text and the publications are 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 amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 646:1991 Information processing - ISO 7-bit coded character set for information

interchange

ISO 9735:1990 Electronic data interchange for administration, commerce and transport

(EDIFACT) - Application level syntax rules

prEN 1556 Bar coding - Terminology EN 1571:1996 Bar coding - Data Identifiers

3 Definitions

For the purposes of this standard the definitions of prEN 1556 and the following apply.

- 3.1 Structured data file: Machine readable structured data used to convey information about an entity.
- 3.2 Two-dimensional symbols: Machine-readable symbols which must be examined both vertically and horizontally to read the entire message.
- 3.3 Data type indicator: A character used in a fixed position in a message to define the syntax rules used in the message.
- 3.4 Data block: The part of a structured data file used to represent the information content of the message.
- 3.5 Format: Formats comprise one or more data segments which shall all use the same syntax.

4 Data format

4.1 Overall structure

The overall structure of a structured data file shall comprise:

- Message header
- Format header
- Data, formatted according to the rules defined for the format
- Format trailer
- Message trailer