



NSAI
Standards

Standard Recommendation
S.R. CEN/TS 15844-5:2010

Postal services - ID-tagging of letter mail items - Part 5: 4-state encoding specification for small letters

S.R. CEN/TS 15844-5:2010

Incorporating amendments/corrigenda/National Annexes issued since publication:

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English Version

Postal services - ID-tagging of letter mail items - Part 5: 4-state encoding specification for small letters

Traitement automatisé des envois postaux -
Chronomarquage des envois postaux - Partie 5:
Spécification de codage en code 4 états pour les lettres

Postalische Dienstleistungen - ID-Kennzeichnung von
Briefsendungen - Teil 5: Spezifikation der 4-State-
Codierung für Standardbriefe

This Technical Specification (CEN/TS) was approved by CEN on 1 December 2008 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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Foreword

This document (CEN/TS 15844-5:2010) has been prepared by Technical Committee CEN/TC 331 "Postal services", the secretariat of which is held by NEN.

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

NOTE This document has been prepared by experts coming from CEN/TC 331 and UPU, under the framework of the Memorandum of Understanding between the UPU and CEN.

This document, CEN/TS 15844-5, is the CEN equivalent of UPU ¹⁾ standard S18e-5. It may be amended only after prior consultation, between CEN/TC 331 and the UPU Standards Board, in accordance with the Memorandum of Understanding between CEN and the UPU.

The UPU's contribution to the document was made, by the UPU Standards Board ²⁾ and its sub-groups, in accordance with the rules given in Part V of the "General information on UPU standards".

This document forms Part 5 of a multi-part CEN/TS 15844, *Postal services — ID-tagging of letter-mail items*. It should be read in conjunction with the main body of the specification, CEN/TS 15844-1. It also relies heavily on Part 4 of the specification, CEN/TS 15844-4.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1) The Universal Postal Union (UPU) is the specialized institution of the United Nations that regulates the universal postal service. The postal services of its 189 member countries form the largest physical distribution network in the world. Some 5 million postal employees working in over 660 000 post offices all over the world handle an annual total of 425 billion letters-post items in the domestic service and almost 6,7 billion in the international service. Some 4,5 billion parcels are sent by post annually. Keeping pace with the changing communications market, posts are increasingly using new communication and information technologies to move beyond what is traditionally regarded as their core postal business. They are meeting higher customer expectations with an expanded range of products and value-added services.

2) The UPU's Standards Board develops and maintains a growing number of standards to improve the exchange of postal-related information between posts, and promotes the compatibility of UPU and international postal initiatives. It works closely with posts, customers, suppliers and other partners, including various international organizations. The Standards Board ensures that coherent standards are developed in areas such as electronic data interchange (EDI), mail encoding, postal forms and meters. UPU standards are published in accordance with the rules given in Part VII of the General information on UPU standards, which may be freely downloaded from the UPU world-wide web site (www.upu.int).

Introduction

A general introduction to all parts of the specification is provided in CEN/TS 15844-1. This part deals only with the encoding of ID-tags in the form of a 4-state bar code printed on the front side of small letters. For consistency with Part -4 of the specification, on which it depends, it is arranged under six main headings:

Clause No. Description of content

- | | |
|----|---|
| 5 | <i>Usage limitations</i> : defines limitations on the use of the Postal-4i 4-state encoding of ID-tags specified in this document; |
| 6 | <i>Value range limitations</i> : defines limitations on the values of data elements used in ID-tags which are to be represented on small letters in the form of a Postal-4i bar code; |
| 7 | <i>Encoding specification</i> : specifies the construction of a 4-state bar code from ID-tag data elements; |
| 8 | <i>Printing of the bar code</i> : to allow the association of computer data with a physical item, the ID-tag is printed on the item itself. This clause defines required ink and printing parameters; |
| 9 | <i>Reading and interpretation of Postal-4i ID-tags</i> : specifies the validation and error correction requirements associated with the reading of ID-tags represented using Postal-4i symbology; |
| 10 | <i>Conversion to the message and binary representations</i> : describes the correspondence between 4-state bar coded representation and the binary and message interchange representations defined in CEN/TS 15844-1. |

These are complemented by two informative annexes, the first providing references to an example implementation of the Postal-4i ID-tag generation algorithm and the second providing a number of example ID-tags, generated using this implementation.

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