

Zdravotnícka informatika Požiadavky na medzinárodné strojovo-čitateľné kódovanie identifikátorov balenia lieku (ISO/TS 16791: 2020)

STN P CEN ISO/TS 16791

84 8122

Health informatics - Requirements for international machine-readable coding of medicinal product package identifiers (ISO/TS 16791:2020)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/21

Táto predbežná STN je určená na overenie. Pripomienky zasielajte ÚNMS SR najneskôr do 7. 9. 2022.

Obsahuje: CEN ISO/TS 16791:2020, ISO/TS 16791:2020

Oznámením tejto normy sa ruší STN P CEN ISO/TS 16791 (84 8122) z januára 2016

TECHNICAL SPECIFICATION SPÉCIFICATION TECHNIQUE TECHNISCHE SPEZIFIKATION

CEN ISO/TS 16791

October 2020

ICS 35.240.80

Supersedes CEN ISO/TS 16791:2015

English Version

Health informatics - Requirements for international machine-readable coding of medicinal product package identifiers (ISO/TS 16791:2020)

Informatique de santé - Exigences pour une identification internationale, lisible par capture automatique, des produits médicinaux (ISO/TS 16791:2020)

Medizinische Informatik - Anforderungen für internationale maschinenlesbare Kodierungen von Identifikatoren für Arzneimittelpackungen (ISO/TS 16791:2020)

This Technical Specification (CEN/TS) was approved by CEN on 7 September 2020 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.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of 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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

STN P CEN ISO/TS 16791: 2021

CEN ISO/TS 16791:2020 (E)

Contents	Page
Europe con forestrond	2
European foreword	

European foreword

This document (CEN ISO/TS 16791:2020) has been prepared by Technical Committee ISO/TC 215 "Health informatics" in collaboration with Technical Committee CEN/TC 251 "Health informatics" 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 shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN ISO/TS 16791:2015.

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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO/TS 16791:2020 has been approved by CEN as CEN ISO/TS 16791:2020 without any modification.

TECHNICAL SPECIFICATION

ISO/TS 16791

Second edition 2020-09

Health informatics — Requirements for international machine-readable coding of medicinal product package identifiers

Informatique de santé — Exigences pour une identification internationale, lisible par capture automatique, des produits médicinaux



STN P CEN ISO/TS 16791: 2021

ISO/TS 16791:2020(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

ISO/TS 16791:2020(E)

Con	Contents Pag		
Forev	word		iv
Intro	ductio	n	v
1	Scop	e	1
2	-	native references	
3		ns, definitions and abbreviated terms	
	3.1	Terms and definitions	
	3.2	Abbreviated terms	
4	Proc	edural background	6
	4.1	General	
	4.2	Identification	
	4.3	International machine-readable coding	
	4.4	Medicinal product	
	4.5	Labelling	
	4.6 4.7	Package identifierSerialization	
5	_	e requirements	
	5.1	General	
	5.2	Traceability	
		5.2.1 Principles	
	5.3	5.2.2 Guidelines	
	5.5	5.3.1 Principles	
		5.3.2 Guidelines for both approaches	
		5.3.3 Product authentication	
		5.3.4 Supply chain integrity	
	5.4	Improving patient safety at point of care	
		5.4.1 Principles	
		5.4.2 Guidelines	
	5.5	Support of healthcare systems	
		5.5.1 Principles	
	Г.	5.5.2 Guidelines	
	5.6	Procurement and stock management 5.6.1 Principles	
		5.6.2 Guidelines	
	5.7	Overview of guidelines	
6		omic aspects	
	6.1	General	
	6.2	Manufacturer perspective	
	6.3	Healthcare provider perspective	
Anne		formative) Relationship between PhPID and MPID	
	-	formative) Packaging hierarchy, relationship between MPID, PCID and GTIN®	
		formative) Identification of trade items and logistic units	
Anne	x D (in	formative) Examples for Package Identifier	24
Anne	x E (in	formative) Personalized Medicine	33
Bibli	ograpl	ıy	34

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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 215, *Health informatics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 251, *Health informatics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO/TS 16791:2014), which has been technically revised.

The main changes to the previous edition are as follows:

- adjustment of definitions to the latest IDMP standard (ISO 11615), adding definition for aggregation;
- improvement of 5.2.1.4;
- improvement of <u>5.3</u> with a clear distinction between product authentication and supply chain integrity;
- improvement of Annex D;
- Addition of <u>Annex E</u>.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html

ISO/TS 16791:2020(E)

Introduction

Globally, healthcare regulators, medicinal product suppliers, and healthcare providers, among others, are facing increased pressure to ensure a more secure and safer supply chain for medicinal products. The primary objective is to ensure optimal patient safety outcomes. Organizations such as the World Health Organization (WHO), the European Union and the US Congress, along with many other healthcare organizations are also seeking robust systems that will deliver outcomes to enhance overall supply chain integrity, to prevent product falsification and to improve patient safety, especially at the point of care.

Machine-readable coding is a technology capable of achieving these stated outcomes. Therefore, the core purpose of this document is to provide guidelines for machine-readable coding based on globally harmonized and interoperable standards for wide scale international implementation.

This document outlines the requirements to implement international machine-readable coding on medicinal product packages in the healthcare supply chain; this process cannot be isolated from more general identification practice with medical devices or other categories of products. It assists all stakeholders implement, use, and optimize Automatic Identification and Data Capture (AIDC) technologies in their respective enterprises with a particular attention to Health Informatics. In that respect, this document complements ISO 11615.

As AIDC offers a wide spectrum of potential solutions, particularly for data carriers such as barcodes, it has highlighted the importance of properly defining data structures to prevent ambiguity when information is encoded and captured.

Furthermore, the semantics of data carried can be defined by a number of organizations (also called "issuing agencies"), some with commercial activities, some with a national emphasis, and others with a standard development organizations' objective. This particular specification focuses on the GS1®1) System of Standards.

The majority of supplies (such as processed food, office supplies, apparels, medical devices and equipment, medicinal products, etc.) in healthcare around the world use the GS1® System of Standards for AIDC as it is multi-sectorial and a globally implemented system of standards. Interoperability along the supply chain is easier to achieve once a single system of standards is used in any market, including healthcare.

This document is intended to guide healthcare packaging designers, regulatory affairs specialists, logistics operators, and others to implement AIDC solutions for healthcare.

NOTE 1 See Reference [39].

NOTE 2 See Reference [40].

¹⁾ GS1® is a registered trademark. This information is given for the convenience of users of this document and does not constitute an endorsement by ISO.

Health informatics — Requirements for international machine-readable coding of medicinal product package identifiers

1 Scope

This document provides guidelines on identification and labelling of medicinal products from the point of manufacture of packaged medicinal product to the point of dispensing the product.

This document outlines best practice for AIDC barcoding solutions for applications. Users can, however, consider the coding interoperability requirements for other AIDC technologies, e.g. Radio Frequency Identification (RFID).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 11615:2017, Health informatics — Identification of medicinal products — Data elements and structures for the unique identification and exchange of regulated medicinal product information

ISO/TS 19256, Health informatics — Requirements for medicinal product dictionary systems for health care

koniec náhľadu – text ďalej pokračuje v platenej verzii STN