

PLOKIAHEL- JA HAJUSRAAMATTEHNOLOOGIAD.
SÕNAVARA

Blockchain and distributed ledger technologies -
Vocabulary (ISO 22739:2024)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN ISO 22739:2025 sisaldab Euroopa standardi EN ISO 22739:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 14.05.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN ISO 22739:2025 consists of the English text of the European standard EN ISO 22739:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 14.05.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 01.040.35, 35.030, 35.240.40, 35.240.99

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EUROPEAN STANDARD

EN ISO 22739

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2025

ICS 01.040.35; 35.030; 35.240.99; 35.240.40

Supersedes EN ISO 22739:2022

English version

Blockchain and distributed ledger technologies - Vocabulary (ISO 22739:2024)

Chaîne de blocs et technologies de registres distribués -
Vocabulaire (ISO 22739:2024)

Blockchain und Technologien für verteilte
elektronische Journale - Begriffe (ISO 22739:2024)

This European Standard was approved by CEN on 11 May 2025.

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Rue de la Science 23, B-1040 Brussels**

European foreword

The text of ISO 22739:2024 has been prepared by Technical Committee ISO/TC 307 "Blockchain and distributed ledger technologies" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 22739:2025 by Technical Committee CEN-CENELEC/ JTC 19 "Blockchain and Distributed Ledger Technologies" the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.

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

This document supersedes EN ISO 22739:2022.

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According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 22739:2024 has been approved by CEN-CENELEC as EN ISO 22739:2025 without any modification.

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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 document 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).

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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 307, *Blockchain and distributed ledger technologies*.

This second edition cancels and replaces the first edition (ISO 22739:2020), which has been technically revised.

The main changes are as follows:

- inclusion of new terms and definitions.

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.

Introduction

This document defines terms relating to blockchain and distributed ledger technologies (DLTs) to clarify the meaning of terms and concepts used in other documents within the domain of ISO/TC 307.

Clear, consistent and coherent standards require clear, consistent and coherent terminology. This document follows the rules and guidelines set by ISO/TC 37, *Language and terminology*, for terminology standards.

This document applies to all types of organizations (e.g. commercial enterprises, government agencies and non-profits). The target audience includes but is not limited to academics, solution architects, customers, users, tool developers, regulators, auditors and standards development organizations.

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Blockchain and distributed ledger technologies — Vocabulary

1 Scope

This document defines fundamental terminology for blockchain and distributed ledger technologies.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

asset

anything that has value to a stakeholder

[SOURCE: ISO 19299:2020, 3.1, modified — The Note to entry has been removed.]

3.2

block

structured data comprising a *block header* (3.4) and *block data* (3.3)

3.3

block data

structured data comprising zero or more *transaction records* (3.95) or references to transaction records

3.4

block header

structured data that includes a *hash link* (3.47) to the previous *block* (3.2), if present

Note 1 to entry: A block header can also contain a *timestamp* (3.91), a *nonce* (3.62), and other *distributed ledger technology (DLT) platform* (3.33) specific data, including a *hash value* (3.48) of corresponding *transaction records* (3.95).

3.5

block reward

reward given to *miners* (3.59) or *validators* (3.99) after a *block* (3.2) is *confirmed* (3.9) in a *blockchain system* (3.7)

Note 1 to entry: A reward can be in the form of a *cryptoasset* (3.14).

3.6

blockchain

distributed ledger (3.23) with *confirmed blocks* (3.10) organized in an append-only, sequential chain using *hash links* (3.47)