



SLOVENSKI STANDARD

SIST CR 13436:1999

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Geografske informacije - Slovar

Geographic information - Vocabulary

Geoinformationen - Vokabular

Information géographique - Vocabulaire

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ICS:

01.040.07	Matematika. Naravoslovne vede (Slovarji)	Mathematics. Natural sciences (Vocabularies)
07.040	Astronomija. Geodezija. Geografija	Astronomy. Geodesy. Geography
35.240.70	Uporabniške rešitve IT v znanosti	IT applications in science

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ICS

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Geographic information - Vocabulary

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

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Foreword

This document has been prepared by CEN /TC 287, "Geographic Information".

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

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Introduction

The Geographic Information vocabulary is the terminological reference within CEN/TC 287. It provides the collection of terms that are defined and used in the other standards of CEN/TC 287.

Clause 3 of this CEN Report is the collection of terms and definitions defined in the Geographic Information European Prestandards and reports.

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1 Scope

The CEN Report is applicable to Geographic Information European prestandards and reports.

2 References

This CEN Report incorporates by dated or undated reference, provisions from other publications. These references are cited at the 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 CEN Report only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ENV 12009:1997, *Geographic Information – Reference Model.*

ENV 12160:1997, *Geographic Information – Data description – Spatial schema.*

ENV 12656:1998, *Geographic Information – Data description – Quality.*

ENV 12657:1998, *Geographic Information – Data description – Metadata.*

ENV 12658:1998, *Geographic Information – Data description – Transfer.*

ENV 12661:1998, *Geographic Information – Referencing – Geographic identifiers.*

ENV 12762:1998, *Geographic Information – Referencing – Direct position.*

ENV 13376:1998, *Geographic Information – Data description – Rules for application schema.*

CR 12660:1998, *Geographic Information – Processing – Query and Update : spatial aspects.*

CR 287005:1996, *Geographic Information – Data description – Conceptual schema language.*

3 Geographic information terms and definitions

3.1

abstraction effect

distortion of quality information because of imperfect and fuzzy specification

NOTE Assessment of quality elements relies on a precise dataset specification. Because a specification is never perfect, it can be interpreted during assessment and this interpretation will be reported with the abstraction effect.

[ENV 12656]

3.2

accuracy

closeness of agreement between a test result and the accepted reference value

[ENV 12656]

3.3

aggregated attribute

collection of attributes treated as a unit

[ENV 12658]

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3.4 application schema
conceptual schema for a specific field of interest within the field of geographic information

[ENV 12009]

3.5 archive, noun
collection of data, holding superseded or rarely accessed data

[CR 12660]

3.6 archive, verb
transfer data to an archive

[CR 12660]

3.7 astronomical coordinates ((Φ, Λ, H) or (Φ, Λ))
astronomical latitude and astronomical longitude of a given point, with or without height

[ENV 12762]

3.8 astronomical latitude (Φ)
angle from the equatorial plane to the direction of gravity through the given point, northwards treated as positive

[ENV 12762]

3.9 astronomical longitude (Λ)
angle from the zero meridian plane to the celestial meridian plane of the given point, eastwards treated as positive

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NOTE The celestial meridian plane differs from the meridian plane defined in this standard ; the celestial meridian plane is the plane which contains the direction of the polar axis and the direction of gravity through the given point.

[ENV 12762]

3.10 attribute
Representation of an essential trait, quality or property of an object or entity

[ENV 12658]

3.11 bidimensional datum (2-dimensional datum, horizontal datum)
datum which serves as a reference for defining 2-dimensional coordinates on a surface

NOTE 1 The surface can be a projected plane or a reference ellipsoid or any surface that can be considered as level.

NOTE 2 At present, regional geodetic datums like ED50 are treated as bidimensional.

[ENV 12762]

3.12 cartesian coordinates
numbers given to locate a point in relation to mutually-perpendicular axes

[ENV 12762]

3.13**channel**

attribute of a raster-band, defined as a matrix of registered intensities of electromagnetic radiation within a specific range of wavelength

NOTE Usually, each channel is identified by a number.

[ENV 12657]

3.14**clear text encoding**

encoding of information that only uses 8-bit byte values corresponding to the set of characters G(02/00) to G(07/14) of ISO 8859-1

[ISO 10303-21:1994]

3.15**client database**

database that requires information from another database

[CR 12660]

3.16**completeness**

quality parameter describing the presence and absence of entity instances, relationship instances and attribute instances

[ENV 12656]

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3.17**conceptual schema**

result from a conceptual modelling of geographic data

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[ENV 12009]

3.18**confidence**

element of metaquality describing the correctness of quality information

[ENV 12656]

3.19**coordinate system**

rule for designating each point in space by a set of numbers

[ENV 12762]

3.20**data transfer**

movement of data between systems, which may comprise file transfer or message handling

[ENV 12658]

3.21**data type**

domain of values

[ENV 12658]

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3.22
dataset
identifiable collection of data

[ENV 12658]

3.23
datum
set of fundamental parameters which collectively serve as a reference for defining other parameters

[ENV 12762]

3.24
deflection of the vertical
angle between the perpendicular to a point on the geodetic ellipsoid and the direction of gravity through that point

NOTE When this is zero, astronomical latitude and longitude are the same as geodetic latitude and longitude.

[ENV 12762]

3.25
direct position
position described by an ordered set of numbers in a positional reference system

[ENV 12762]

3.26
domain
set of permissible values that an attribute may take

[ENV 12658]

3.27
easting (E)
eastward coordinate on a map projection plane

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NOTE The eastward direction on a map projection plane is only an approximation to the true east direction.

[ENV 12762]

3.28
ellipsoidal height (h)
distance of a point from the geodetic ellipsoid measured along the perpendicular to the geodetic ellipsoid at that point, with height of points outside the ellipsoid being treated as positive

NOTE Also known as geodetic height.

[ENV 12762]

3.29
encoding rules
rules defining possible data structures, data types and symbols which are used in the representation of data

[ENV 12658]

3.30
entity
class of information defined by common properties

[ENV 12658]

3.31**exchange structure**

computer-interpretable format used for storing, accessing, transferring and archiving data

[ISO 10303-1:1994]

3.32**extent**

space covered by a geographic dataset

NOTE Space is meant here as Euclidean space but also as a period in time.

[ENV 12657]

3.33**external file**

file whose encoding is not defined by this European Prestandard

[ENV 12658]

3.34**file transfer**

data transfer using files, through a data network or unconnected media

[ENV 12658]

3.35**flattening**

parameter for the deviation of the shape of an ellipsoid from a sphere expressed mathematically by the equation

$f = \frac{a-b}{a}$, where a and b are the ellipsoid's semi-major and semi-minor axes

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[ENV 12762]

3.36**function**

process that performs a single operation and can return values

[ENV 12660]

3.37**fundamental point**

starting point of the bidimensional terrestrial network to which the datum definition is related

NOTE Only used in two dimensions.

[ENV 12762]

3.38**gazetteer**

directory of instances of locations

EXAMPLE : A gazetteer of streets in a municipality

[ENV 12661]

3.39**geodetic coordinates ((φ, λ, h) or (φ, λ, H) or (φ, λ))**

geodetic latitude and geodetic longitude with or without height

[ENV 12762]