



SLOVENSKI STANDARD
oSIST prEN ISO 19156:2022
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Geografske informacije - Opazovanja, meritve in vzorci (ISO/DIS 19156:2022)

Geographic information - Observations, measurements and samples (ISO/DIS 19156:2022)

Geoinformation - Erdbeobachtung und Erdmessung (ISO/DIS 19156:2022)

Information géographique - Observations, mesures et échantillons (ISO/DIS 19156:2022)

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35.240.70	Uporabniške rešitve IT v znanosti	IT applications in science

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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 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).

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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 211, *Geographic information/Geomatics*, in collaboration with the Open Geospatial Consortium, Inc. (OGC).

This second edition cancels and replaces the first edition (ISO 19156:2011), which has been technically revised. The UML model as well as the requirements/conformance class structure has been completely redesigned to address the contemporary modelling and observation data provision use cases. The fundamental Observation model has remained largely the same as in the previous version, with carefully designed improvements and clarifications for the intended use. The Sample model has also been refined. Given the integral nature of the Sample model, it has been decided to include that term in the name of the standard.

Special care has been taken to ensure smooth migration from the ISO 19156:2011 to this version.

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/DIS 19156:2022(E)

Introduction

This International Standard arises from work originally undertaken through the Open Geospatial Consortium's Sensor Web Enablement (SWE) activity. A set of interfaces and protocols was standardized through which applications and services are able to access sensors of all types, and observations generated by them, over the Web.

A new generation of geospatial standards is now emerging, based on general Web standards, architecture, and current practice, as described in <https://www.w3.org/TR/sdw-bp/>. This includes several new standards for describing and publishing sensors and observations, such as the OGC SensorThings API^[23] and the W3C/OGC Semantic Sensor Network Ontology^[29]. This new version of the Observations and Measurements Standard (now named "Observations, Measurements and Samples", OMS for short) is informed by these recent developments. The focus of this revision is aimed at enabling the publication of observation data as part of the Web of data, while also supporting other means of data exchange.

The content presented here derives from the previous version published by Open Geospatial Consortium as OGC 10-004r3, OGC Abstract Specification Geographic information — Observations and measurements (ISO 19156:2011). A technical note describing the changes from the earlier version is available as [Annex C](#).

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Geographic information — Observations, measurements and samples

1 Scope

This International Standard defines a conceptual schema for observations, for features involved in the observation process, and for features involved in sampling when making observations. These provide models for the exchange of information describing observation acts and their results, both within and between different scientific and technical communities.

Observations commonly involve sampling of an ultimate feature-of-interest. This International Standard defines a common set of sample types according to their spatial, material (for ex-situ observations), or statistical nature. The schema includes relationships between sample features (sub-sampling, derived samples).

This International Standard concerns only externally visible interfaces and places no restriction on the underlying implementations other than what is needed to satisfy the interface specifications in the actual situation.

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2 Normative references

PREVIEW

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 19103:2015, *Geographic information — Conceptual schema language*

ISO 19107:2019, *Geographic information — Spatial schema*

ISO 19108:2002, *Geographic information — Temporal schema*

ISO 19109:2015, *Geographic information — Rules for application schema*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological 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 application schema

conceptual schema for data required by one or more applications

[SOURCE: ISO 19101-1:2014, 4.1.2]

3.2 coverage

feature that acts as a function to return values from its range for any direct position within its domain

[SOURCE: ISO/DIS 19123-1, 3.1.8]

ISO/DIS 19156:2022(E)**3.3****data type**

specification of a value domain with operations allowed on values in this domain

EXAMPLE Integer, Real, Boolean, String, Date and SG Point (conversion of data into a series of codes).

Note 1 to entry: Data types include primitive predefined types and user-definable types.

[SOURCE: ISO 19103:2015, 4.14]

3.4**domain**

well-defined set

Note 1 to entry: All elements within a domain (set) are of a given type.

[SOURCE: ISO 19109:2015, 4.8, modified — Original Note 1 to entry has been replaced with a new note to entry.]

3.5**domain feature**

feature of a type defined within a particular application domain

Note 1 to entry: This may be contrasted with observations and sampling features, which are features of types defined for cross-domain purposes.

3.6**ex-situ****off-site**

referring to the study, maintenance or conservation of a specimen or population away from its natural surroundings

Note 1 to entry: Opposite of in-situ (on-site).

3.7**feature**

abstraction of real-world phenomena

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Note 1 to entry: A feature may occur as a type or an instance. In this document, feature instance is meant unless otherwise specified.

[SOURCE: ISO 19101-1:2014, 4.1.11, modified — Note 1 to entry has been modified.]

3.8**feature-of-interest**

subject of the observation

3.9**feature type**

class of features having common characteristics

3.10**measurand**

quantity intended to be measured

3.11**measure**

<GML> value described using a numeric amount with a scale or using a scalar reference system

Note 1 to entry: When used as a noun, measure is a synonym for physical quantity.

[SOURCE: ISO 19136-1:2020, 3.1.41]

3.12**measurement**

set of operations having the object of determining the value of a quantity

[SOURCE: ISO 19101-2:2018, 3.21]

3.13**observation**

act carried out by an observer to determine the value of an observable property of an object (feature-of-interest) by using a procedure, with the value is provided as the result

3.14**observer**

identifiable entity that can generate observations pertaining to an observable property by implementing a procedure

Note 1 to entry: An observer is an instance of a sensor, instrument, implementation of an algorithm or a being such as a person.

3.15**procedure**

specified way to carry out an activity or a process

[SOURCE: ISO 9000:2015, 3.4.5, modified — Note 1 to entry has been deleted.]

3.16**process**

set of interrelated or interacting activities that use inputs to deliver an intended result

[SOURCE: ISO 9000:2015, 3.4.1, modified — Notes 1-6 have been deleted.]

3.17**property**

facet or attribute of an object referenced by a name

EXAMPLE Abby's car has the colour red, where "colour red" is a property of the car.

[SOURCE: ISO 19143:2010, 4.21, modified — Example has been added to the entry.]

3.18**property type**

characteristic of a feature type

Note 1 to entry: The value for an instance of an observable property type can be estimated through an act of observation.

EXAMPLE Cars (a feature type) all have a characteristic colour, where "colour" is a property type.

Note 2 to entry: In chemistry-related applications, the term "determinand" or "analyte" is often used.

Note 3 to entry: Adapted from ISO 19109:2005.

3.19**proximate feature-of-interest**

entity that is directly of interest in the act of observing

Note 1 to entry: This is a specialized form of the feature-of-interest