

<b>STN</b>	<b>Geografické informácie Zhoda a skúšanie (ISO 19105: 2022)</b>	<b>STN EN ISO 19105</b>  01 9326
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Geographic information - Conformance and testing (ISO 19105:2022)

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. 09/22

Obsahuje: EN ISO 19105:2022, ISO 19105:2022

Oznámením tejto normy sa ruší  
STN EN ISO 19105 (01 9326) zo septembra 2005

**135678**



EUROPEAN STANDARD

**EN ISO 19105**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2022

ICS 35.240.70

Supersedes EN ISO 19105:2005

English Version

**Geographic information - Conformance and testing (ISO  
19105:2022)**Information géographique - Conformité et essais (ISO  
19105:2022)Geoinformation - Konformität und Prüfung (ISO  
19105:2022)

This European Standard was approved by CEN on 18 June 2022.

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EUROPÄISCHES KOMITEE FÜR NORMUNG**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN ISO 19105:2022 (E)**

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## **European foreword**

This document (EN ISO 19105:2022) has been prepared by Technical Committee ISO/TC 211 "Geographic information/Geomatics" in collaboration with Technical Committee CEN/TC 287 "Geographic Information" the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by January 2023, and conflicting national standards shall be withdrawn at the latest by January 2023.

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 EN ISO 19105:2005.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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 19105:2022 has been approved by CEN as EN ISO 19105:2022 without any modification.

**INTERNATIONAL  
STANDARD**

**ISO  
19105**

Second edition  
2022-07

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**Geographic information —  
Conformance and testing**

*Information géographique — Conformité et essais*



Reference number  
ISO 19105:2022(E)

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CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

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## ISO 19105:2022(E)

### 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](http://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](http://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](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 211, *Geographic information/Geomatics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 287, *Geographic Information*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 19105:2000), which has been technically revised.

The main changes are as follows:

- the document has been reformatted to have a modular structure;
- conformance testing requirements have been added for modular specification;
- dependency relationships have been introduced among conformance classes;
- three-valued logic is supported on the overall result evaluation;
- the statements on process are omitted, leaving freedom for implementers.

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](http://www.iso.org/members.html).



## Introduction

The scope of ISO/TC 211 is standardization in the field of digital geographic information. This work aims at establishing a structured set of International Standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth. These International Standards can specify, for geographic information, methods, tools and services for data management (including definition and description). They can also specify the acquisition, processing, analysing, accessing, presentation and transferring of such data in digital/electronic form between different users, systems and locations. The work will be linked to appropriate International Standards for information technology and data, where possible, and provide a framework for the development of sector-specific applications using geographic data.

This document is based on concepts defined in ISO International Standards which describe conformance and testing. Certain components of the Open Geospatial Consortium (OGC) modular specification,<sup>[2]</sup> including requirements, requirements classes, abstract test cases and conformance classes, are also used in this document. While the framework of conformance testing described in these documents is also used in this document, some concepts have been modified for use in this particular domain.

Conformance testing does not include robustness testing, acceptance testing and performance testing, because the family of documents on geographic information does not establish requirements for these areas.

Conformance testing tests a candidate product according to normative requirements which are required to be satisfied by passing the tests of the abstract test suite. These abstract test cases are organized into conformance classes in a modular structure, each of which represents a mechanism for partial satisfaction of the International Standard in terms of the corresponding requirements class.

In the practical sense, it is very important to be able to ensure good quality in testing and conformance with the relevant requirement(s). This can be achieved via traceability and perhaps even with a traceability matrix where the requirement and the test result are correlated.

It is recommended that all applicable International Standards regarding geographic information and the relevant application domains follow the formatting for requirements used in this document.

The name and contact information of the Maintenance Agency for this document can be found at [www.iso.org/maintenance\\_agencies](http://www.iso.org/maintenance_agencies).

# Geographic information — Conformance and testing

## 1 Scope

This document specifies the framework, concepts and methodology for conformance testing and criteria to be achieved to claim conformance to the family of applicable standardization documents regarding geographic information and relevant application domains. This document provides a framework for specifying abstract test suites composed of abstract test cases grouped in conformance classes and for defining the procedures to be followed during conformance testing.

Conformance can be claimed for data or software products or services or by specifications including any profile or functional standard. The structure of, and relationships between, conformance classes as defined in this document underly a systematic approach to configuration management involving managing dependencies within and between modules.

## 2 Normative references

There are no normative references in this document.

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**