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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 28585-2025

Replacing GB/T 28585-2012

Geographic information - Methodology for feature cataloguing

地理信息 要素编目方法

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document replaces GB/T 28585-2012 "Method for cataloguing geographic information elements". Compared with GB/T 28585-2012, except for the structure In addition to adjustments and editorial changes, the main technical changes are as follows:

- a) Added XML implementation of the feature catalog conceptual model and conformance class content of XML instance documents (see Chapter 5);
- b) Change "principle requirements" to "requirements", and divide the content into overview, conceptual model requirements, XML implementation requirements, and XML instance document requirements. Find 4 parts (see Chapter 6, Chapter 6 of the.2012 edition);
- c) Added "XML implementation requirements" (see 6.3) and "XML instance document requirements" (see 6.4);
- d) The expression of the conformance test in Appendix A "Abstract Test Suite" has been changed (see A.2, Appendix A of the.2012 edition);
- e) Added the test contents of "XML schema conformance class" and "XML instance document conformance class" (see A.3 and A.4);
- f) Added the content of "Feature Catalog Registration Model Conformance Test" (see B.5);
- g) The description of "XML namespace" in Appendix D "Encoding Instructions" has been

changed (see D.2, E.2 of the 2012 edition). This document is equivalent to ISO 19110:2016 "Method for cataloguing geographic information elements". The following minimal editorial changes were made to this document.

- a) The website information after the term introductory words in Chapter 3 of ISO 19110:2016 has been deleted and moved to the references of this document;
- b) Adjust Chapter 5 "Abbreviations" of ISO 19110:2016 to the end of Chapter 3 "Terms and Definitions" and change it to Chapter 4;
- c) Supplemented the missing labeling clauses in Table 1 of the first paragraph of 4.1 of ISO 19110:2016;
- d) Change Chapter 4 "Conformance" of ISO 19110:2016 to Chapter 5 and delete the title "Conformance Class" in 4.1;

1 Scope

GB/T 28585 is the Chinese standard for feature cataloguing in geographic information: how you write down, in a form a machine can use, what the things in a spatial dataset actually are. A feature catalogue defines the feature types a dataset contains, their attributes and the domains those attributes may take, the associations between feature types, and the operations that apply to them. Without one, two datasets that both contain a layer called "road" cannot be safely combined, because nothing states what either party meant by a road; with one, they can. The document specifies the requirements for a feature catalogue as a conceptual model, its XML implementation and its XML instance documents, together with the conformance rules, and it carries two normative annexes: the abstract test suite against which a conformance claim is tested, and the management of a feature catalogue register. It is identical to ISO 19110:2016, so a catalogue built to the ISO standard satisfies the Chinese one. The 2025 edition replaces GB/T 28585-2012 and brings in the requirements-class structure, the XML implementation requirements and both annexes.

This document describes a methodology for cataloging feature types, organizing them into feature catalogs and providing them to users of geographic datasets. way. This document is applicable to the establishment of feature catalogs for uncataloged feature types, revision of existing feature catalogs, and the representation of The cataloging principles apply to cataloging other forms of geographic data. The feature catalog is consistent with the feature concept defined in ISO 19126. This document is also applicable to the definition of geographic features at the type level. Elements are not suitable for representing a single instance of each element type and do not involve the graphical representation mode specified in ISO 19117. This document is used as a basis for defining a domain in the modeling of a specific application, or as a basis for defining a set of real-world elements in the modeling of multiple applications. Standardize general characteristics.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 35647-2017 Geographic Information Conceptual Model Language (ISO 19103:2015, IDT) Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 designation;designator The way of expressing concepts.

Note. In terminology work, references are divided into three types. symbols, names and terms. [Source: GB/T 15237.1-2000, 3.4.1]