

# SVENSK STANDARD

## SS-EN ISO 19135-1:2015



Fastställt/Approved: 2015-11-09

Publicerad/Published: 2015-11-23

Utgåva/Edition: 1

Språk/Language: engelska/English

ICS: 35.020; 35.240.01; 35.240.30; 35.240.50; 35.240.60; 35.240.70

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### **Geografisk information – Procedurer för registrering – Del 1: Grunder (ISO 19135-1:2015)**

### **Geographic information – Procedures for item registration – Part 1: Fundamentals (ISO 19135-1:2015)**

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Europastandarden EN ISO 19135-1:2015 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN ISO 19135-1:2015.

Denna standard ersätter SS-EN ISO 19135:2007, utgåva 1.

The European Standard EN ISO 19135-1:2015 has the status of a Swedish Standard. This document contains the official English version of EN ISO 19135-1:2015.

This standard supersedes the Swedish Standard SS-EN ISO 19135:2007, edition 1.

**Förhållandet till övriga delar under samma huvudtitel - Utdrag ur Förord i ISO 19135-1:2015/  
Relations to other parts under the same general title - Extract from the Foreword of ISO 19135-1:2015**

ISO 19135 consists of the following parts, under the general title *Geographic information — Procedures for item registration*:

- *Part 1: Fundamentals*
- *Part 2: XML Schema Implementation*

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EUROPEAN STANDARD

**EN ISO 19135-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2015

ICS 35.240.70

Supersedes EN ISO 19135:2007

English Version

## Geographic information - Procedures for item registration - Part 1: Fundamentals (ISO 19135-1:2015)

Information géographique - Procédures pour  
l'enregistrement d'éléments - Partie 1: Principes de  
base (ISO 19135-1:2015)

Geoinformation - Registrierungsverfahren für  
geographische Informationseinheiten - Teil 1:  
Grundsätze (ISO 19135-1:2015)

This European Standard was approved by CEN on 16 April 2015.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**



# Contents

Page

<b>European foreword</b> .....	<b>2</b>
<b>Introduction</b> .....	<b>vi</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Conformance</b> .....	<b>1</b>
2.1 General.....	1
2.2 Core conformance class.....	1
2.3 Extended conformance class.....	1
2.4 Hierarchical register conformance class.....	2
<b>3 Normative references</b> .....	<b>2</b>
<b>4 Terms, definitions, and abbreviations</b> .....	<b>2</b>
4.1 Terms and definitions.....	2
4.2 Abbreviations.....	4
4.3 Notation.....	4
<b>5 Roles and responsibilities in the management of registers</b> .....	<b>4</b>
5.1 General.....	4
5.2 Register owner.....	5
5.3 Register manager.....	6
5.3.1 Appointment of a register manager.....	6
5.3.2 Responsibilities of a register manager.....	6
5.4 Submitting organizations.....	6
5.5 Control body.....	7
5.6 Registry manager.....	7
5.7 Register user.....	7
<b>6 Management of registers</b> .....	<b>7</b>
6.1 Establishment of registers.....	7
6.2 Status of register items.....	8
6.3 Change of status of register items.....	8
6.3.1 General.....	8
6.3.2 Addition.....	8
6.3.3 Clarification.....	8
6.3.4 Invalidation.....	8
6.3.5 Retirement.....	9
6.3.6 Supersession.....	9
6.4 Submission of proposals.....	9
6.4.1 Process of submitting.....	9
6.4.2 Submitting organizations.....	9
6.4.3 Register manager.....	9
6.5 Approval process.....	10
6.6 State of a register.....	10
6.7 Publication.....	10
6.8 Integrity.....	11
6.9 Registration proposals.....	11
<b>7 Register schema</b> .....	<b>11</b>
7.1 General.....	11
7.2 Register.....	12
7.2.1 Register schema.....	12
7.2.2 Object Type: Register.....	13
7.3 RegisterStakeholder.....	14
7.3.1 RegisterStakeholder schema.....	14
7.3.2 Object Type: RegisterStakeholder.....	15
7.4 ItemClass.....	16
7.4.1 ItemClass schema.....	16

7.4.2	Object Type: ItemClass .....	17
7.5	RegisterItem .....	17
7.5.1	RegisterItem schema .....	17
7.5.2	Object Type: RegisterItem .....	18
<b>8</b>	<b>Hierarchical registers</b> .....	<b>20</b>
8.1	General .....	20
8.2	Management of hierarchical registers .....	21
8.3	Extensions to the register schema .....	21
8.4	SubregisterDescription .....	21
8.4.1	SubregisterDescription schema .....	21
8.4.2	Object Type: SubregisterDescription .....	22
<b>Annex A</b>	<b>(normative) Abstract test suite</b> .....	<b>24</b>
<b>Annex B</b>	<b>(normative) UML model for the extended conformance class</b> .....	<b>26</b>
<b>Annex C</b>	<b>(informative) Establishment of registers by ISO/TC 211</b> .....	<b>50</b>
<b>Annex D</b>	<b>(informative) Processing of proposals</b> .....	<b>53</b>
<b>Annex E</b>	<b>(informative) Information to be included in proposals for item registration</b> .....	<b>58</b>
<b>Annex F</b>	<b>(informative) Backward compatibility</b> .....	<b>60</b>
<b>Bibliography</b>	.....	<b>62</b>



## **European foreword**

This document (EN ISO 19135-1:2015) 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 May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.

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

This document supersedes EN ISO 19135:2007.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### **Endorsement notice**

The text of ISO 19135-1:2015 has been approved by CEN as EN ISO 19135-1:2015 without any modification.

## Introduction

This part of ISO 19135 specifies procedures for the registration of items of geographic information. ISO/IEC JTC 1 defines registration as the assignment of an unambiguous name to an object in a way that makes the assignment available to interested parties. Items of geographic information that may be registered are members of object classes specified in technical standards such as those developed by ISO/TC 211.

**NOTE** In this International Standard, the definition of registration has been changed so that registration is the assignment of linguistically independent identifiers, rather than names, to items of geographic information.

Registration of items of geographic information offers several benefits to the geographic information community. Registration

- a) supports wider use of registered items both by providing international recognition to the fact that such items conform to an ISO International Standard and by making them publicly available to potential users,
- b) provides both immediate recognition to extensions of an International Standard and a source for updates to that International Standard during the regular maintenance cycle,
- c) may provide a single mechanism to access information concerning items that are specified in different standards,
- d) provides a mechanism for managing temporal change,

**NOTE** Items specified in a standard or in a register may change over time either due to changes in technology or for other reasons. Published standards do not clearly document what changes may have occurred, and do not include information about earlier versions of specified items. Such information can be maintained in a register.

- e) may be used to make sets of standardized tags available for encoding of registered items in data sets, and
- f) supports cultural and linguistic adaptability by providing both a means for recording equivalent names of items used in different languages, cultures, application areas and professions and a means for making those equivalent names publicly available.

This part of ISO 19135 specifies procedures to be followed in preparing and maintaining registers of items of geographic information. Any organization may choose to establish registers of items of geographic information that conform to this part of ISO 19135. [Annex C](#) is particularly applicable to registers established under the auspices of ISO/TC 211.

A goal of this part of ISO 19135 is to achieve a balance between minimizing the number of registers for items of geographic information and minimizing the burden on the registration authorities.

Following experience of setting up registers in user communities, there are fewer requirements in this version than previously. Because of this, implementations of the previous edition of ISO 19135 should be conformant to this part of ISO 19135. A log of changes from the previous version (ISO 19135:2005) is provided in [Annex F](#).

The level of abstraction for the UML model described in ISO 19135-1 is the “Abstract Schema level” according to ISO 19103 requirement 4.

# Geographic information — Procedures for item registration —

## Part 1: Fundamentals

### 1 Scope

This part of ISO 19135 specifies procedures to be followed in establishing, maintaining, and publishing registers of unique, unambiguous, and permanent identifiers and meanings that are assigned to items of geographic information. In order to accomplish this purpose, this part of ISO 19135 specifies elements that are necessary to manage the registration of these items.

### 2 Conformance

#### 2.1 General

This part of ISO 19135 defines three conformance classes for registers:

- Core schema – the minimum requirements for establishing, maintaining, and publishing registers;
- Extended schema – additional requirements to be conformant to the most frequently used model elements in the previous edition (ISO 19135:2005);
- Hierarchical register.

To conform to this part of ISO 19135, a register of items of geographic information shall satisfy all of the requirements specified in one of the three conformance levels described in [2.2](#) to [2.4](#), with the corresponding abstract test suite given in [Annex A](#).

#### 2.2 Core conformance class

[Table 1](#) defines the characteristics of the core conformance class.

**Table 1 — Core conformance class**

Conformance class identifier	core
Standardization target	registers
Dependency	ISO 19103: Conformance classes UML 2, Model documentation ISO 19115-1: <a href="#">Clause 2</a> Conformance requirements
Requirements	All requirements in <a href="#">Clauses 5</a> to <a href="#">7</a>
Tests	All tests in <a href="#">A.1</a>

#### 2.3 Extended conformance class

[Table 2](#) defines the characteristics for the extended conformance class.