



BSI Standards Publication

# Information technology — Metadata registries (MDR)

---

Part 6: Registration

This is a preview of BS ISO/IEC 11179-6:2023. [Click here to purchase the full version from the ANSI store.](#)

## National foreword

This British Standard is the UK implementation of ISO/IEC 11179-6:2023. It supersedes BS ISO/IEC 11179-6:2015, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee IST/40, Data management and interchange.

A list of organizations represented on this committee can be obtained on request to its committee manager.

### Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2023  
Published by BSI Standards Limited 2023

ISBN 978 0 539 05686 0

ICS 35.040.50

### Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2023.

### Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

---

This is a preview of BS ISO/IEC 11179-6:2023. [Click here to purchase the full version from the ANSI store.](#)

Fourth edition  
2023-01-16

---

---

# Information technology — Metadata registries (MDR) —

## Part 6: Registration

*Technologies de l'information — Registres de métadonnées (RM) —  
Partie 6: Enregistrement des données*



Reference number  
ISO 11179-6:2023(E)

© ISO 2023



## **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2023, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

This is a preview of BS ISO/IEC 11179-6:2023. [Click here to purchase the full version from the ANSI store.](#)

## Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Concept of operation</b> .....	<b>4</b>
4.1 Metamodel of a metadata registry.....	4
4.2 Common facilities.....	4
4.2.1 Identification.....	4
4.2.2 Designation and definition.....	4
4.2.3 Classification.....	4
4.2.4 Registration.....	5
4.3 Status categories.....	5
4.3.1 General.....	5
4.3.2 Summary of registration status categories.....	5
4.3.3 Description of registration status categories.....	7
4.3.4 Description of administrative status.....	9
4.4 Procedures.....	9
<b>5 Metadata registries of administered items</b> .....	<b>10</b>
5.1 General.....	10
5.2 Contents.....	10
5.2.1 Metadata registry views.....	10
5.2.2 Metadata registry contents and levels of conformance.....	10
5.2.3 Metadata registry contents and types of administered items.....	11
5.3 Language(s).....	11
5.4 Availability of the metadata registry of administered items.....	11
<b>6 Conformance</b> .....	<b>11</b>
<b>Annex A (informative) Identifiers based on ISO/IEC 6523</b> .....	<b>12</b>
<b>Annex B (informative) Suggested functional operating procedures — Roles and responsibilities</b> .....	<b>16</b>
<b>Annex C (informative) Suggested functional operating procedures — Concept of operations</b> .....	<b>23</b>
<b>Annex D (informative) Suggested functional operating procedures — Procedures</b> .....	<b>26</b>
<b>Annex E (informative) Suggested functional operating procedures — Harmonization and reuse</b> .....	<b>35</b>
<b>Annex F (informative) Frequently asked questions</b> .....	<b>37</b>
<b>Bibliography</b> .....	<b>39</b>

## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

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 document 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) or [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC 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)) or the IEC list of patent declarations received (see <https://patents.iec.ch>).

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). In the IEC, see [www.iec.ch/understanding-standards](http://www.iec.ch/understanding-standards).

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 32, *Data management and interchange*.

This fourth edition cancels and replaces the third edition (ISO/IEC 11179-6:2015), which has been technically revised.

The main changes are as follows:

- the restructuring of the different parts of ISO/IEC 11179 have been taken into account;
- references to other standards have been updated to the latest editions.

A list of all parts in the ISO/IEC 11179 series can be found on the ISO and IEC websites.

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) and [www.iec.ch/national-committees](http://www.iec.ch/national-committees).

This is a preview of BS ISO/IEC 11179-6:2023. [Click here to purchase the full version from the ANSI store.](#)

## Introduction

This document describes the procedure by which metadata items, or other registry items, required in various application areas can be assigned an internationally unique identifier and registered in a metadata registry maintained by one or more Registration Authorities. This document supports multiple schemes for ensuring the uniqueness of the identification.

The metamodel of the common facilities for a metadata registry is defined in ISO/IEC 11179-3. Other parts in the ISO/IEC 11179 series and the ISO/IEC 19763 series provide additional metamodels to extend the common facilities to permit various types of metadata to be registered. The metamodel for the common facilities defined in ISO/IEC 11179-3 allows a registry item to simply be identified or to be both identified and registered. A registered item may either be an administered item, meaning it has its own registration state, or it may be an attached item, which means it is attached to an administered item and shares the latter's registration state. The registered items are included in registries maintained by one or more Registration Authorities, to which the registered items logically and functionally belong. An organization wishing to become a registration authority may do so in accordance with the procedure prescribed in [Annex A](#).

The registration process described in this document may be applied to any type of registry item, such as those specified by:

- ISO/IEC 11179-31[8]: data elements, data element concepts, conceptual domains, value meanings, value domains and classification schemes;
- ISO/IEC 11179-32[9]: concept systems, relations and links;
- ISO/IEC 11179-33[10]: data sets and associated attributes;
- ISO/IEC 11179-34[16]: computable data;
- ISO/IEC 11179-35[11]: models;
- ISO/IEC 19763[14]: ontologies, process models, service models, role and goal models, information models, document models, mappings between models, and form designs;

and/or custom types not specified by these standards. Each registered item is represented within a metadata registry by a registration record that documents the common administration and identification, naming and definition details together with their metadata item-specific details.

Within this document, the use of “Registry” denotes an implementation of a registry that is based upon the common facilities defined in ISO/IEC 11179-3 and that is managed by one or more Registration Authorities.



This is a preview of BS ISO/IEC 11179-6:2023. Click here to purchase the full version from the ANSI store.

# Information technology — Metadata registries (MDR) —

## Part 6: Registration

### 1 Scope

This document defines the type of information to be specified, the conditions to be met, and the procedure(s) to be followed for each item to be registered in a metadata registry. The requirements and procedures contained herein apply to all types of items specified in ISO/IEC 11179-3, ISO/IEC 11179-31<sup>[8]</sup>, ISO/IEC 11179-32<sup>[9]</sup>, ISO/IEC 11179-33<sup>[10]</sup>, ISO/IEC 11179-35<sup>[11]</sup> and those specified in ISO/IEC 19763<sup>[14]</sup>. Some Registration Authorities can use this document to register and manage locally defined metadata item types that are not defined in ISO/IEC 11179 or ISO/IEC 19763.

This document addresses the common metadata that is used to document the common facilities of a registry: administration, identification, naming and definition, details that can apply to any and all types of registry items.

This document does not address the metadata that is specific to particular types of registry items, such as data elements and value domains. This document does not specify the registry's system design, file organization techniques, storage media, programming languages, etc. to be used in its implementation.

### 2 Normative references

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/IEC 11179-3, *Information technology — Metadata registries (MDR) — Part 3: Metamodel for registry common facilities*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 11179-3 and the following 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 data

re-interpretable representation of information in a formalized manner suitable for communication, interpretation, or processing

Note 1 to entry: Data can be processed by human or automatic means.

[SOURCE: ISO/IEC 2382:2015, 2121272, modified — Notes to entry 2 and 3 deleted.]