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American National Standard

INCITS/ISO/IEC 11179-6:2015 (2020)

(ISO/IEC 11179-6:2015, IDT)

Information technology - Metadata registries (MDR) - Part 6: Registration

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2015-08-01

Information technology — Metadata registries (MDR) —

Part 6: Registration

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

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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. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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).

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).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, Subcommittee SC 32, *Data management and interchange*.

This third edition cancels and replaces the second edition (ISO/IEC 11179-6:2005), which has been technically revised.

ISO/IEC 11179 consists of the following parts, under the general title *Information technology — Metadata registries (MDR)*:

— *Part 1: Framework*

— *Part 2: Classification*

— *Part 3: Registry metamodel and basic attributes*

— *Part 4: Formulation of data definitions*

— *Part 5: Naming principles*

— *Part 6: Registration*

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Introduction

This part of ISO/IEC 11179 describes the procedure by which *metadata items* required in various application areas could be assigned an internationally unique identifier and registered in a metadata registry maintained by one or more Registration Authorities. This edition of this part of ISO/IEC 11179 supports multiple schemes for ensuring the uniqueness of the identification.

The metamodel of a metadata registry defined in ISO/IEC 11179-3 allows a metadata 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 Metadata 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 part of ISO/IEC 11179 may be applied to any type of metadata item, such as those specified by ISO/IEC 11179-3: data elements, data element concepts, conceptual domains, value meanings, value domains, classification schemes, and concept systems; those specified by ISO/IEC 19763: ontologies, process models, service models, role and goal models, information 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 part of ISO/IEC 11179, the use of "Metadata Registry" denotes an implementation of a metadata registry that is based upon ISO/IEC 11179 and that is managed by one or more Registration Authorities.

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Information technology — Metadata registries (MDR) —

Part 6: Registration

1 Scope

1.1 Statement of scope

This part of ISO/IEC 11179 defines the type of information to be specified, the conditions to be met, and the procedure(s) to be followed for each metadata item to be registered in a metadata registry. The requirements and procedures contained herein apply to all metadata items specified in ISO/IEC 11179-3 and those specified in ISO/IEC 19763. Some Registration Authorities may want to use this part of ISO/IEC 11179 to register and manage locally defined metadata item types that are not defined in ISO/IEC 11179-3 or ISO/IEC 19763.

This part of ISO/IEC 11179 addresses the common metadata that is used to document the common facilities of a metadata registry: administration, identification, naming and definition, details that can apply to any and all types of metadata items.

1.2 Exclusions

This part of ISO/IEC 11179 does not address the metadata that is specific to particular types of metadata items such as data elements and value domains. This part of ISO/IEC 11179 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, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 11179-1, *Information technology — Metadata registries (MDR) — Part 1: Framework*

ISO/IEC 11179-3, *Information technology — Metadata registries (MDR) — Part 3: Registry metamodel and basic attributes*

3 Terms and definitions

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

3.1
administered item
registered item (3.38) for which *administrative information* (3.2) is recorded

[SOURCE: ISO/IEC 11179-3:2013, 3.2.2]

3.2
administrative information
<metadata registry> information about the administration of an item in a *metadata registry* (3.26)

EXAMPLE Creation date, last change date, origin, change description, and explanatory comment.

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