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Information technology — Metadata registries (MDR) — Part 30: Basic attributes of metadata

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~~Fax: +41 22 749 09 47~~
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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.

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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)~~www.iso.org/patents) or the IEC list of patent declarations received (see ~~https://patents.iec.ch).~~https://patents.iec.ch).

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

This first edition of ISO/IEC 11179-30 cancels and replaces ISO/IEC TS 11179-30:2019, which has been technically revised.

The main changes are as follows:

~~Remove~~— removed the prior dependence on ISO/IEC 11179-3[4], since this document is intended for use when a metadata registry is not appropriate~~.~~;

~~Reflect~~— reflect the relocation of the metamodel for data specification registration from ISO/IEC 11179-3 to ISO/IEC 11179-31[5].

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 and www.iec.ch/national-committees.~~www.iso.org/members.html and www.iec.ch/national-committees.

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Introduction

Data processing and electronic data interchange rely heavily on accurate, reliable, controllable and verifiable data recorded in databases. A prerequisite for correct and proper use and interpretation of data is that both users and owners of data have a common understanding of the meaning and representation of the data. To facilitate this common understanding, a number of characteristics, or attributes, of the data have to be defined. These characteristics of data are known as "metadata", that is, "data that describe data". The ISO/IEC 11179 series provides a family of conceptual metamodels for the attributes of data elements and associated metadata to be specified and registered as metadata items in a metadata registry (MDR).

This document provides a simplified presentation of the basic attributes which are required to describe data elements and associated metadata, and which might be used in situations where a complete ISO/IEC- 11179-3 metadata registry is not appropriate (e.g. in the specification of other International Standards).

This document applies to the definition, specification and contents of collections of metadata, including interchanging or referencing among such collections.

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Information technology — Metadata registries (MDR) — Part 30: Basic attributes of metadata

1 Scope

This document specifies "basic attributes" which are required to describe metadata in situations where a complete ISO/IEC 11179-3[4] metadata registry is not appropriate (e.g. in the specification of other International Standards).

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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~~https://www.iso.org/obp

— IEC Electropedia: available at ~~http://www.electropedia.org/~~https://www.electropedia.org/

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3.1
object
anything perceivable or conceivable

Note 1 to entry: Objects can be material (e.g. 'engine', 'sheet of paper', 'diamond'), immaterial (e.g. 'conversion ratio', 'project plan') or imagined (e.g. 'unicorn', 'scientific hypothesis').

[SOURCE: ISO 1087:2019, 3.1.1]

3.2
property
feature of an *object* (3.1)

EXAMPLE 1: 'Being made of wood' as a property of a given 'table'.

EXAMPLE 2: 'Belonging to person A' as a property of a given 'pet'.

EXAMPLE 3: 'Having been formulated by Einstein' as a property of the equation 'E = mc^2'.

EXAMPLE 4: 'Being compassionate' as a property of a given 'person'.

EXAMPLE 5: 'Having a given cable' as a property of a given 'computer mouse'.

Note 1 to entry: One or more objects can have the same property.

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