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Information technology —
Metadata Registries Interoperability and Bindings (MDRIB) —
Part 82: Attribute mapping for 11179-3 metadata registry metamodel

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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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 shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 20944-82 was prepared by Technical Committee ISO/IEC JTC1, *Information Technology*, Subcommittee SC32, *Data Management and Interchange*.

ISO/IEC 20944 consists of the following parts, under the general title *Information technology — Metadata Registries Interoperability and Bindings (MDRIB)*:

— *Part 01: Framework*

— *Part 02: Common vocabulary*

— *Part 03: Common provisions for conformance*

— *Part 04: Generic usage*

— *Part 05: Common data structures and services*

— *Part 06: Semi-structured aggregation*

— *Part 20: Common provisions for coding bindings*

— *Part 21: XML coding binding*

— *Part 22: DNVP coding binding*

— *Part 23: ASN.1 coding binding*

— *Part 40: Common provisions for application programming interface (API) bindings*

— *Part 41: C API binding*

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- Part 42: C++ API binding
- Part 43: Java API binding
- Part 44: ECMAScript API binding
- Part 45: Perl binding
- Part 46: LISP binding
- Part 47: PHP binding
- Part 60: Common provisions for protocol bindings
- Part 61: SQL/CLI protocol binding
- Part 62: WebDAV protocol binding
- Part 63: SOAP protocol binding
- Part 64: WSDL protocol binding
- Part 65: LDAP protocol binding
- Part 66: JMS protocol binding
- Part 80: Common provisions for profiles
- Part 81: Attribute mapping for 11179-3 metadata registry metamodel
- Part 82: Profile for 11179-3 metadata registry metamodel
- Part 83: Uniform Resource Identifier (URI) suffixes for 11179-3 metadata registry metamodel navigation

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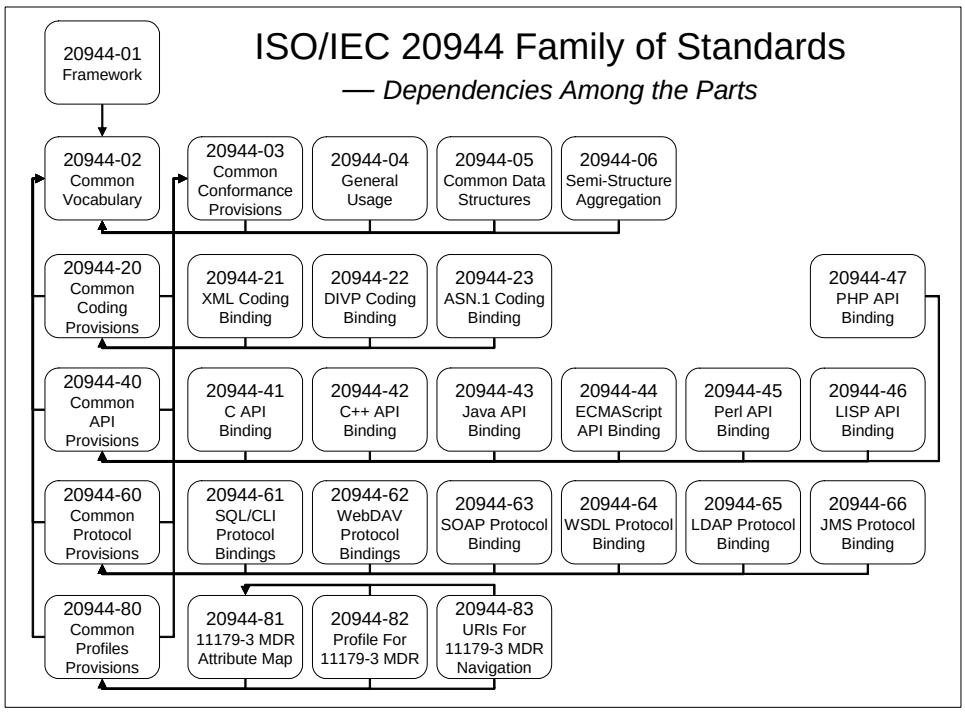
Introduction

The following diagram shows the organization of the ISO/IEC 20944 family of standards.



Organization of ISO/IEC 20944 family of standards.

This Part provides the common provisions for conformance that are referenced in other parts of this International Standard.

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Information technology — Metadata Registries Interoperability and Bindings (MDRIB) — Part 82: Profile for 11179-3 metadata registry metamodel

Editor's Note: Each part of 20944 is marked with a common sequence number ("**[Release Sequence #N]**") to indicate they are synchronized and harmonized among themselves. The mark "**[Release Sequence #N]**" does *not* imply that there are a complete set of N-1 prior drafts for any particular Part.

1 Scope

The ISO/IEC 20944 family of standards describe codings, APIs, and protocols for interacting with an ISO/IEC 11179 metadata registry (MDR).

This part specifies mapping of metamodel attributes, as specified in ISO/IEC 11179-3, to identifiers for the purpose of navigating metadata registries.

2 Normative references

The following referenced documents are indispensable for the application 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 11179-3:2003, *Information technology — Metadata Registries (MDR) — Registry metamodel and basic attributes*

ISO/IEC 20944-01:—[1], *Information technology — Metadata Registries Interoperability and Bindings (MDRIB) — Overview*[2]

ISO/IEC 20944-02:—[3], *Information technology — Metadata Registries Interoperability and Bindings (MDRIB) — Common vocabulary*

ISO/IEC 20944-80:—[4], *Information technology — Metadata Registries Interoperability and Bindings (MDRIB) — Common provisions for profiles*

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[1] To be published.

[2] The current drafts of the 20944 series are available at "http://metadata-standards.org/20944".

[3] To be published.

[4] To be published.

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ISO/IEC 20944-81:—[5], *Information technology — Metadata Registries Interoperability and Bindings (MDRIB) — Attribute mapping for 11179-3 metadata registry metamodel*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in Part 02 and the following apply[6].

3.1
referenced data interchange specification
data model that is being used for a defined interoperability binding

NOTE The term *referenced data interchange specification*, defined in 20944-02, is used throughout the 20944 family of standards to reference the data model that is being used for the bindings. The *referenced data interchange specification* is tied to the bindings via normative reference, e.g., some other standard defines a data model and uses 20944, via normative reference, to provide some coding, API, or protocol bindings. For Part 82, the *referenced data interchange specification* refers to the 11179-3 metamodel. Part 04 of this International Standard, explains how other standards and specifications may use or re-use portions of the 20944 family of standards.

3.2
navigable identifier
identifier that may be used for navigation and access

4 Profile

This Part identifies ISO/IEC 11179-3 as the referenced data interchange specification. This Part incorporates, normative reference, the following standards:

— ISO/IEC 11179-3

— ISO/IEC 20944-02

— ISO/IEC 20944-80

— ISO/IEC 20944-81

NOTE 1 The purpose of normative referencing these standards is to incorporate the provisions that describe the 11179 metamodel (i.e., 11179-3), the terminology (i.e., 20944-02), the common provisions for profiles (i.e., 20944-80), and the navigable identifiers associated with the metadata item attributes (i.e., 20944-81).

NOTE 2 The result of this profile is (1) a set of navigable identifiers that correspond to the 11179-3 metamodel, and (2) the implicit data model is the 11179-3 metamodel. The intent is to combine this Part with coding, API, and protocol bindings. For example, requiring 20944-82 (this Part) and 20944-21 (XML coding binding) gives a specification that describes an XML rendering of the 11179-3 metamodel; requiring 20944-82 and 20944-41 (C API binding) gives a specification that describes a set of C programming language services that access an 11179-3 metamodel (i.e., C APIs for access to a metadata registry).

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[5] To be published.

[6] Users and implementers of this International Standard may find it useful to reference additional terms and definitions from 20944-02.

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